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TRANSISTOR

SELECT-A-SPEC

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Understand Explanations of
Transistor Parameters

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Transistor Select-A-Spec

by

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Transistor Select-A-Spec

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About This Book

Since there are so many transistors on the market, and every manufacturer doesn't make the same unit to the same specifications, how is the engineer, technician, or experimenter to select the transistor he needs for a particular circuit? How, indeed? Unless he has a photographic memory, he has to rely on stacks of manufacturer design sheets—all of which *must* be catalogued for quick and easy reference.

No longer is this process necessary. As you will see, *Transistor Select-A-Spec* not only presents all pertinent specifications for any one of 5,000 transistors in the *Transistor Specifications* section, it also has a section presenting nothing but maximum collector power at ambient temperatures, and another for case temperatures—with the listings in order of power rating. Another section lists maximum collector current—listed from the lowest current-rated transistor to the highest. Still other sections list maximum collector-emitter, collector-base, and emitter-base voltages.

With this format, you can easily select a transistor that has, say, a power rating of 3 watts that also will work satisfactorily in a 12 volt circuit. Just refer to the *Power Dissipation* section and locate the group of transistors that fall into the category you desire. Then turn to the *Transistor Specifications* section and see if the transistor(s) you have selected also has the voltage values you desire.

TRANSISTOR SPECIFICATIONS

Transistor specifications are the yardstick with which one can determine the limit to which the transistor can be put. Without specifications it is quite impossible to accurately select a transistor for a given application and be certain that it will work properly. For this reason it is best that you know a little of each specification.

Maximum Collector Power (P_c)

The maximum collector power rating of a transistor is the amount of power the collector junction will safely handle. In this book, the steady-state value (DC) is listed. This means that the collector must not be called upon to dissipate more power at a constant rate than that listed. Surges of power which are not longer than a few milliseconds will generally be safely handled, if not greater, generally, than half again as much as the listed value. For example, if a given transistor has a given power rating of 10 watts, it should safely handle surges up to 15 watts.

To increase the power handling capability of any transistor, supply it with a heat sink. This is generally nothing more than clamping the transistor case to the radio chassis so that the heat is able to escape more rapidly. Of course, dipping the transistor in a liquid will increase the dissipation rating; so will having a fan blow over it. But these two methods are not practical for the average circuit designer or electronics technician.

The maximum collector power dissipation figure is given in two columns in the section on P_C. The first column lists P_C at 25° Centigrade ambient temperature (T_A). This is the maximum amount of power the collector-base junction can safely handle when no heat sink is attached to the transistor and the temperature of the air surrounding the transistor is 25° C.

The second of the two columns lists maximum P_C with the transistor connected to a heat sink. Here, 25° Centigrade pertains to the transistor case temperature (T_C). More simply, this is the maximum amount of power the collector-base junction can safely handle at a case temperature of 25° C.

Maximum P_C at both ambient and case temperatures is the maximum amount of power the transistor can safely handle *under steady-state conditions*. It can be computed from Ohm's law, using the collector voltage and the DC resistance of the collector load resistor.

Maximum Collector Current (I_c)

The maximum collector current rating of a transistor is the amount of current the collector junction will safely handle. Using a transistor

with a current rating which is less than that called for in a given circuit will result in destruction of the collector-base junction. This, of course, is no different than using a 1-watt resistor in a circuit which consumes 2 watts; the resistor will burn up.

When selecting a transistor for a circuit, always select one having a higher collector power and current rating than would be encountered at any time—even considering surges. Keep in mind that circuit components change with age, line voltage increases from time to time, and the transistor itself isn't infallible. Practically anything can cause an increase in current flow. Just be sure to allow for normal increases by selecting the proper rated transistor.

Although emitter and base current values aren't listed in this book, they have been taken into consideration. In no case will the emitter current exceed that of the collector. In reality, the sum of the emitter and base currents is equal to the collector current. Thus, by staying within the value of collector current, you automatically observe the other two current values.

Maximum Collector-to-Emitter Voltage (V_{CE})

Listed in the specifications columns you will find collector-to-emitter maximum operating voltage. This characteristic is the maximum voltage that can be placed across these two electrodes without causing damage to the transistor. In all cases in this book the maximum V_{CE} is given with the base open-circuited.

When selecting a transistor according to its value of V_{CE}, keep in mind that the transistor will be subject to surge voltages. Most surges are in the form of signal voltage where an excessively large spike appears at the input circuit and causes, in effect, a larger voltage stress to appear across the electrodes. If the junction(s) across which this spike appears isn't capable of withstanding such a stress, breakdown will occur. You may want a transistor for a circuit in which the rated DC voltage is 12 volts, and the input signal doesn't exceed two or three volts. Just figuring on a stress of 12 or 15 volts isn't good enough; allow approximately 30% for spikes and you'll be safe. For example, if you are certain that the collector to emitter will only be subject to 30 volts, select transistor having at least a V_{CE} of 40 volts.

Maximum Collector-to-Base Voltage (V_{CB})

The collector-to-base voltage rating of a transistor is the amount of stress in volts the collector-base junction can safely withstand. In this book, V_{CB} is given with the emitter open-circuited.

Maximum Emitter-to-Base Voltage (V_{EB})

This is the voltage the emitter-base junction can safely withstand before breakdown. As with the previous two ratings, this one is taken with the third electrode (in this case the collector) open-circuited.

In the selection of transistors according to their maximum operating voltages, it must be realized that the transistor, unlike the vacuum tube, can be easily destroyed by slight excesses in voltage. True, the vacuum tube will ultimately become defective if operated at higher-than-recommended values; but the transistor may be destroyed immediately if the values aren't within tolerances.

Forward Current Gain (h_{fe})

The h_{fe} of a transistor is the symbol which denotes the small-signal, forward current transfer ratio of a common-emitter amplifier with the output AC short circuited. More simply, it is the ratio of output to input current. For example, if the transistor has a base current of .01 ma and a collector current of 1.0 ma, it has a forward gain of 100. This figure, of course, varys with the electrode voltages and circuit parameters. The same transistor will generally have a different gain figure in different circuits.

The voltage and current at which the h_{fe} was measured is listed in the column to the right of the h_{fe}. The frequency is listed next to the current column. The voltage, current, and frequency are listed so that you will know exactly how the gain figure was achieved. As stated, the gain will vary with voltage and current; likewise it will vary with frequency. At DC a transistor will have a much higher gain than it will at radio frequencies. A good example of this is the 2N1987. Pacific Semiconductors manufactures a 2N1987 with a gain of 2.0 at 20 mc; other companies list their 2N1987 with a gain of 50 at DC. This is not to say that the gain figures are different—they are just listed at different frequencies. In reality, the gain of all these different manufacturers' same type are pretty much the same.

Collector to Base Leakage (I_{CBO})

Since transistors are solid-state devices, not open electrode like vacuum tubes, they posses leakage current from the collector to base. This leakage is due to reverse biasing the junction, which is an essential prerequisite for transistor operation.

The greater the leakage current, the greater the output capacitance of the transistor. The smaller the leakage, the smaller the output capacitance. This is the same principle as a large electrolytic

capacitor possessing much leakage, while a small one possesses little leakage.

Gain Bandwidth Product (f_t)

This is the frequency (given in megacycles) at which the current gain (h_{fe}) is unity (1). When operated at unity gain, the transistor is nothing more than a coupling device. When operated at frequencies higher than f_t, the transistor introduces a loss into the circuit.

MANUFACTURER CODES

AF — American Machine & Foundry

AI — Associated Electrical Industries (England)

AM Amelco, Inc.

AP — Amperex Electronics Co.

AS — Associated Semiconductor Ltd. (England)

AT — Associated Transistors Ltd. (England)

BN — Bendix Semiconductor Products

BR — Brush Clevite Co., Ltd. (England)

CD — Continental Device Corp.

CE — CBS Electronics

CG — Compagnie Generale de T.S.F. (France)

CV — Clevite Transistor Corp.

CY — Crystalonics, Inc.

DR — Delco Radio Div., General Motors Corp.

EB — Ebauches S.A. (Switzerland)

ET — Electronic Transistors Corp.

FE — Ferranti Ltd. (England)

FS — Fairchild Semiconductor Corp.

FT — Fanon Transistor Corp.

GC — G.E.C. (General Electric Co., Ltd., England)

GE — General Electric Semiconductor Products

GG — Canadian General Electric Co. (Canada)

GI — General Instrument Corp.

GP — Germanium Products

GT — General Transistor

HI — Hitachi Ltd. (Japan)

HL — Hughes International Ltd. (Scotland)

HU — Hughes Products

IT — Industro Transistor Corp.

KF — Kearfott Semiconductor Corp.

KK — Kobe Kogyo Corp. (Japan)

LU — Joseph Lucas Electrical Ltd. (England)

MH — Minneapolis-Honeywell Semiconductor

MO — Motorola Semiconductor Products

MU — Mullard Overseas Ltd. (England)

NS — National Semiconductor Corp.

NU — National Union

PH — Philco Corp.

PS — Pacific Semiconductors Inc.

RA — Raytheon Semiconductors

RC — Radio Corporation of America

RD — Radio Development & Research (Bogue)

RH — Rheem Semiconductor Corp.

RR — Dr. Ing. Rudolph Rost (Germany)

SC — SONY Corp. (Japan)

SF — Societe Europienne des Semiconducteurs (France)

SG — Siemens and Halske Aktiengesellschaft (Germany)

SJ — Shindengen Electric Mfg. Co. (Japan)

SP — Sperry Semiconductors

SR — Sprague Electric Co.

SY — Sylvania Semiconductors

TA — TADIRAN (Israel)

TE — Transitron Electric Corp.

TI — Texas Instruments Semiconductors

TJ — Tokyo Shibaura Electric Co. (Japan)

TL — Texas Instruments Ltd. (England)

TS — Tung-Sol Electric

TX — Texas Instruments Ltd. (France)

WE — Western Electric Co.

WS — Westinghouse Electric Corp.

*Western Electric Co. transistors are available only to U.S. Government agencies, their contractors and subcontractors, for government end use.

TRANSISTOR SYMBOLS EXPLANATION

P_C @ T_A — Maximum power the collector will continuously dissipate at 25° C ambient (free air) temperature.

P_C @ T_C — Maximum power the collector will continuously dissipate at 25° C case temperature.

I_C — Maximum amount of direct current the collector is capable of handling at a temperature of 25° C.

V_{CE} — Maximum safe dc operating voltage from collector to emitter with the base open circuited.

V_{CB} — Maximum safe dc operating voltage from collector to base with the emitter open circuited.

V_{EB} — Maximum safe dc operating voltage from emitter to base with the collector open circuited.

h_{fe} —In the common emitter configuration, this is the average, small signal, forward current ac transfer ratio with the output ac short circuited.

V_{CE} — Collector to emitter voltage at which h_{fe} was measured.

I_C — Amount of collector current flowing when h_{fe} was measured

freq — Frequency at which h_{fe} was measured.

I_{CO} — Collector leakage current with the collector-base junction reversed biased and the emitter open circuited.

V_{CB} — Collector-base voltage at which I_{CO} was measured.

TYPE — P for PNP, N for NPN, G for germanium, and S for silicon.

BASE — Transistor case diagram number.

USE — AF for audio frequencies, GP for general purpose, RF for radio frequencies, SP for special purpose, and SW for medium to fast switching.

f_t — Gain bandwidth product; the frequency at which the small signal, common emitter, forward current transfer ratio (h_{fe}) is unity (zero db) with the output ac short circuited.

$f\alpha$ — Alpha cutoff frequency; the frequency at which the small signal, short circuit, forward current transfer ratio ($h_{f\beta}$) is .707 times its low frequency value.

TRANSISTOR obsolete*	MFG	MAXIMUM						GAIN			MAX	@	TYPE	BASE	USE	typ
		P_C (watts)		I_C amps	V_{CE}	V_{CB}	V_{EB}	typ h_{fe}	V_{CE}	I_C ma amp*	freq kc mc*	I_{CBO} μa ma*	V_{CE}				f_t $f_{\alpha b}$*
		T_A	T_C														
2A	CV	.12		.008		50								PG	9	AF	
2B	CV	0.1		.008		50								PG	9	RF	3.0*
2C	CV	0.1		.008		50								PG	9	AF	
2D	CV	0.1		.008		50								PG	9	RF	3.0*
2E	CV	0.1		.008		50								PG	9	AF	
2F	CV	0.1		.008		50								PG	9	RF	
2G	CV	0.1		.008		50								PG	9	RF	
2G101	TI	0.1		.02	15	15	1.0	25		2.0	DC			PG	2	RF	250
2G102	TI	0.1		.02	15	15	1.0	30		2.0	DC			PG	2	RF	300
2G103	TI		0.3	.05	15	15	2.0	50		10	DC			PG	7	SW	300*
2G104	TI		0.3	.05	15	15	3.5	50		10	DC			PG	7	SW	300*
2G110	TI	0.3		0.1	15	36	2.5	15		15	DC			PG	2	GP	
2G210	TI		50	6.0	60	60	20	85		1*	DC			PG	72	GP	0.7
2G220	TI		80	10	40	40	30	25		10*	DC			PG	72	GP	
2G221	TI		80	10	60	60	30	25		10*	DC			PG	72	GP	
2G222	TI		80	10	80	80	30	25		10*	DC			PG	72	GP	
2G223	TI		80	15	40	40	30	25		15*	DC			PG	72	GP	
2G224	TI		80	15	60	60	30	25		15*	DC			PG	72	GP	
2G226	TI		80	20	40	40	30	25		20*	DC			PG	72	GP	
2G227	TI		80	20	60	60	30	25		20*	DC			PG	72	GP	
2G228	TI		80	20	80	80	30	25		20*	DC			PG	72	GP	
2G229	TI		80	25	40	40	30	25		25*	DC			PG	72	GP	
2G230	TI		80	25	60	60	30	25		25*	DC			PG	72	GP	
2G231	TI		80	25	80	80	30	25		25*	DC			PG	72	GP	
2G301	TI	0.2		0.3	20	20	10	50		1.0	DC			PG	14	GP	7.0
2G302	TI	0.2		0.3	20	20	10	65		1.0	DC			PG	14	GP	15
2G303	TI	0.2		0.3	30	30	10	50		1.0	DC			PG	14	GP	7.0
2G304	TI	0.2		0.3	30	30	10	65		1.0	DC			PG	14	GP	15
2G306	TI	0.2		0.3	20	20	10	165		1.0	DC			PG	14	GP	20
2G308	TI	0.2		0.3	20	20	10	100		1.0	DC			PG	14	GP	5.0
2G309	TI	0.2		0.3	20	20	10	250		1.0	DC			PG	14	GP	20
2G371	TI	0.2		0.3	20	20	10	80		1.0	1.0			PG	14	GP	3.0
2G374	TI	0.2		0.3	20	20	10	150		1.0	1.0			PG	14	GP	3.0
2G376	TI	0.2		0.3	30	30	10	30		250	1.0			PG	14	GP	3.0
2G377	TI	0.2		0.3	60	60	10	30		250	1.0			PG	14	GP	3.0
2G381	TI	.25		0.5	20	20	3.0	110		300	1.0			PG	14	GP	3.0
2G382	TI	.25		0.5	30	30	10	110		300	1.0			PG	14	GP	3.0
2G401	TI	.15		.01	20	20	1.0	65		1.0	DC			PG	2	RF	85
2G402	TI	.15		.01	20	20	1.0	65		1.0	DC			PG	2	RF	85
2G403	TI	.15		.025	40	40	1.0	95		10	DC			PG	2	SW	200
2G413	TI	0.1		.025	40	40	1.0	95		10	DC			PG	7	SW	200
2G414	TI	0.1		.01	20	20	1.0	65		1.0	DC			PG	7	RF	75
2G415	TI	0.1		.01	20	20	1.0	65		1.0	DC			PG	7	RF	75
2G416	TI	0.1		.01	20	20	1.0	65		1.0	DC			PG	7	RF	75
2G417	TI	0.1		.01	20	20	1.0	65		1.0	DC			PG	7	RF	75
2N33	RC	.03				8.5								PG		RF	
2N34	ET,RC,RR	.05		0.1	25	40		70		1.0	1.0	50	40	PG	67	AF	
2N35	GT,RC	.05		0.1	25			40	5.0	1.0	1.0			NG	32	AF	
2N35	SY	.18		0.1		40	10	75	6.0	1.0	1.0	50	40	NG	67	GP	0.9
2N36	ET,RR	.07		.008	20	20		45		1.0	1.0	10	20	PG	67	AF	
2N37	ET,RR	.07		.008	20	20		30		1.0	1.0	10	20	PG	67	AF	
2N38	ET,RR	.07		.008	20	20		15		1.0	1.0	10	20	PG	67	AF	
2N41	RC	.05				25								PG	14	AF	
2N43	GE	.24	.55	0.3		45	5.0	40	5.0	1.0	1.0	16	45	PG	45	RF	0.5
2N43*	TE	.15			30	45	15	50	5.0	1.0	1.0	10	45	PG	17	GP	
2N43A	GE	.24	.55	0.3	35	45	5.0	40	5.0	1.0	1.0	16	45	PG	45	RF	0.5
2N43A	GT	.15		.05	35	45	15	48	5.0	1.0	1.0	7.0	5.0	PG	45	GP	
2N44	GE	.24	.55	0.3	30	45	5.0	22	5.0	1.0	1.0	16	45	PG	45	RF	0.5
2N44	GT,TE	.15		.05	30	45	15	24	5.0	1.0	1.0	16	45	PG	45	GP	
2N44A	GT	.12						25	5.0	1.0	1.0	16	45	PG	45	GP	
2N45	GT,TE	.15			30	45	15	25	5.0	1.0	1.0	16	45	PG	45	GP	
2N52	CV	0.1		.008		50								PG	9	RF	3.0*
2N59*	WS	.18		0.2	20	25	10	55	9.0	10	1.0	15	20	PG	2	AF	
2N59A*	WS	.18		0.2	20	25	10	55	9.0	10	1.0	15	20	PG	2	AF	
2N59B*	WS	.18		0.2	20	50	10	55	9.0	10	1.0	15	20	PG	2	AF	
2N59C*	WS	.18		0.2	20	60	10	55	9.0	10	1.0	15	20	PG	2	AF	
2N60*	WS	.18		0.2	20	25	10	55	9.0	10	1.0	15	20	PG	2	AF	
2N60A*	WS	.18		0.2	20	40	10	55	9.0	10	1.0	15	20	PG	2	AF	
2N60B*	WS	.18		0.2	20	50	10	55	9.0	10	1.0	15	20	PG	2	AF	
2N60C*	WS	.18		0.2	20	60	10	55	9.0	10	1.0	15	20	PG	2	AF	
2N61*	WS	.18		0.2	20	25	10	55	9.0	10	1.0	15	20	PG	2	AF	
2N61A*	WS	.18		0.2	20	40	10	55	9.0	10	1.0	15	20	PG	2	AF	
2N61B*	WS	.18		0.2	20	50	10	55	9.0	10	1.0	15	20	PG	2	AF	
2N61C*	WS	.18		0.2	20	60	10	55	9.0	10	1.0	15	20	PG	2	AF	
2N63	RA	0.1		.01	22			22			DC	6.0	20	PG	67	GP	

TRANSISTOR obsolete*	MFG	MAXIMUM						GAIN				MAX	@	TYPE	BASE	USE	typ
		P_C (watts)		I_C amps	V_{CE}	V_{CB}	V_{EB}	typ h_{fe}	V_{CE}	I_C ma amp*	freq kc mc*	I_{CBO} μa ma*	V_{CE}				f_t, $f_{\alpha b}$*
		T_A	T_C														
2N63*	TS	0.1		.025	25							15	25	PG	67	GP	
2N64	RA	0.1		.01	15			45			DC	6.0	20	PG	67	GP	
2N64*	TS	0.1		.025	25							15	25	PG	67	GP	
2N65	RA	0.1		.01	12			90			DC	6.0	20	PG	67	GP	
2N65*	TS	0.1		.025	25							15	25	PG	67	GP	
2N77	RC	.025		.015		25						10	12	PG	22	AF	
2N78	GE	.065		.02	15	15	5.0	70	1.0	1.0	DC	3.0	15	NG	67	RF	3.0
2N78A	GE	.065		.02	20	20	5.0	70	1.0	1.0	DC	3.0	15	NG	67	RF	3.0
2N79	RC	.035		.05		30								PG	32	AF	
2N83*	TE	2.0			60	66	12					100	25	P	10	GP	
2N83A*	TE	2.0										85	25	P	10	GP	
2N84*	TE	2.0			45	50	12					110	25	P	10	GP	
2N84A*	TE	2.0										95	25	P	10	GP	
2N94	SY	.15		0.1	15	20	5.0	10	6.0	1.0	455			NG	67	RF	2.0
2N94A	SY	.15		0.1	15	20	5.0	13	6.0	1.0	455			NG	67	RF	5.0
2N101/13	SY	1.0	4.0	1.5		30		25	2.0	500	DC			NG	64	AF	
2N102/13	SY	1.0	4.0	1.5		30		25	1.5	500	DC			NG	64	AF	
2N104	RC	.15		.05		30		44			DC	10	30	PG	32	AF	0.7
2N105	RC	.035		.015		25						6.0	35	PG	21	AF	
2N106	RA	0.1		.01	20			90			DC	6.0	20	PG	67	GP	
2N106	TI	.15		0.1	15	18	2.0	80		10	DC			PG	7	SW	300
2N107	GE	.05		.01		12		15	5.0	1.0	1.0	10	5.0	PG	45	GP	0.6
2N109	RC	.15		.07		25		25			DC	14	25	PG	32	AF	
2N110	WE		0.2	.04		50	50	3.0	10	1.0	DC				67		5.0*
2N111A	RA	0.1		0.2	18			25			DC	1.0	12	PG	67	GP	
2N112	RA			.001	6.0			40			DC	1.0		PG	67		
2N112A	RA	0.1		0.2	15			30			DC	1.0	12	PG	67	GP	
2N113	RA			.001	6.0			45			DC	1.0		PG	67		
2N114	RA			.001	6.0			65			DC	1.0		PG	67		
2N117	TE	.15		.025		30	1.0	15	5.0	1.0	1.0	10	30	NS	67	GP	8.0*
2N117	TI	.15		.025		45	1.0	15	5.0	1.0	1.0	2.0	30	NS	67	GP	3.0
2N118	TE	.15		.025		30	1.0	30	5.0	1.0	1.0	10	30	NS	67	GP	10*
2N118	TI	.15		.025		45	1.0	30	5.0	1.0	1.0	2.0	30	NS	67	GP	4.0
2N118A*	TE	.15		.025		30	1.0	50	5.0	1.0	1.0	10	30	NS	67	GP	11*
2N118A	TI	.15		.025		45	1.0	50	5.0	1.0	1.0	2.0	30	NS	67	GP	10
2N119	TE	.15		.025		30	1.0	60	5.0	1.0	1.0	10	30	NS	67	GP	8.0*
2N119	TI	.15		.025		45	1.0	60	5.0	1.0	1.0	2.0	30	NS	67	GP	5.0
2N120	TE	.15		.025		30	1.0	140	5.0	1.0	1.0	10	30	NS	67	GP	8.0*
2N120	TI	.15		.025		45	1.0	140	5.0	1.0	1.0	2.0	30	NS	67	GP	5.0
2N122	TI		8.75	.14		120	1.0					50	100	NS	81	GP	
2N123	GE	.15		.125	15	20	10	82	5.0	1.0	1.0	6.0	20	PG	45	SW	5.0
2N123/5	SY	0.1		.125	15	20	10	150	1.0	10	DC	6.0	20	PG	2	SW	5.0
2N123A	GE	.15		.125	15	20	10	82	5.0	1.0	1.0	6.0	20	PG		SW	8.0
2N128	PH, SR	.025		.005	4.5	10	10	45	3.0	0.5	DC	3.0	10	PG	19	RF	5.0
2N129	PH	.03		.005	4.5	10	10					15	10	PG	19	GP	
2N130	RA			.001	6.0			22			DC	6.0		PG	68		
2N130A	RA	0.1		0.1	40			22	6.0	1.0	1.0	6.0	20	PG	68	GP	
2N131	RA			.001	6.0			45			DC	6.0		PG	68		
2N131A	RA	0.1		0.1	30			45	6.0	1.0	1.0	6.0	20	PG	68	GP	
2N132	RA			.001	6.0			90			DC	6.0		PG	68		
2N132A	RA	0.1		0.1	20			90	6.0	1.0	1.0	6.0	20	PG	68	GP	
2N133	RA			.05	2.5			25			DC	6.0		PG	68		
2N133A	RA	0.1		0.1	15			50	6.0	1.0	1.0	6.0	20	PG	68	GP	
2N135	GE	0.1		.05		20								PG	45	RF	
2N136	GE	0.1		.05		20								PG	45	RF	
2N137	GE	0.1		.05		10								PG	45	RF	
2N138	RA			.001	6.0							6.0	12	PG	67	AF	
2N138A	RA			.001	6.0							6.0	12	PG	67	AF	
2N139	RC	.035		.015		16		48	9.0	1.0	1.0	6.0	12	PG	32	RF	4.7
2N140	RC	.08		.015		16		75	9.0	0.6	1.0	6.0	12	PG	32	RF	
2N144/13	SY	1.0	4.0	0.8		60	60	20	4.0	250	DC			NG	50	GP	
2N156	CE, KF	1.5	25	3.0	30	30	30	40	12	360	0.4	1*	30	PG	1	GP	
2N156	RA		20	3.0	30	30	30	15				1*	30	PG	12	GP	
2N157*	CE	1.5	8.5	3.0		45	30	20	2.0	500	DC	1*	60	PG	72	GP	
2N157A*	CE	1.5	8.5	3.0		70	30	20	2.0	500		1*	60	PG	72	GP	
2N158	CE, KF	1.5	25	3.0	60	60	60	40	24	180	0.4	1*	60	PG	1	GP	
2N158	RA		20	3.0	60	60	30					1*	60	PG	12	GP	
2N158A	CE, KF	1.5	25	3.0	60	80	30	29	2.0	1*	DC	1*	80	PG	21	GP	.01*
2N158A	RA		23	3.0	60	80	30					1*	30	PG	12	GP	
2N158 JAN *	CE		17	2.0	45	60	30	21	2.0	500		1*	60	PG	12	GP	
2N167	GE	.065		.075	30	30	5.0	30	8.0	1.0	DC	1.5	15	NG	67	SW	3.0
2N167A	GE	.065		.075	30		5.0	30	8.0	1.0	DC	1.5	15	NG	67	SW	3.0
2N168A	GE	.065		.02	15	15		23			DC	5.0	15	NG	67	RF	8.0*
2N169	GE	.065		.02	15	15		72	1.0	1.0	DC	5.0	15	NG	67	RF	8.0*
2N170	GE	.025		.02	6.0			16	5.0	1.0	1.0	5.0	5.0	NG	67	RF	4.0*

TRANSISTOR obsolete*	MFG	MAXIMUM P_C (watts) T_A	P_C (watts) T_C	I_C amps	V_{CE}	V_{CB}	V_{EB}	typ h_{fe}	GAIN V_{CE}	I_C ma amp*	freq kc mc*	MAX I_{CBO} μa ma*	@ V_{CE}	TYPE	BASE	USE	typ f_t $f_{\alpha b}$*
2N173	BN,DR,MO, RC		150	15	45	60	40	45	2.0	5*	DC	7*	60	PG	43	RF	100
2N174	BN,DR,MO, RC		150	15	55	80	60	37	2.0	5*	DC	7*	80	PG	43	RF	200*
2N174	SF		70	15	55	80	60	20	2.0	12*	DC	8*	80	PG	43	GP	
2N174A	DR,MO		150	15	40	80	60	60		1.2*	DC	8*	80	PG	43	GP	0.1*
2N174 JAN	DR,MO,TS		150	15	40	80	60	37	2.0	5*	DC	8*	80	PG	43	GP	200*
2N175	RC	.05		.002		10		65	4.0	0.5	1.0	12	25	PG	32	AF	
2N176	DR			7.0		40	10	55	2.0	500	DC	3*	30	PG	72	AF	.004
2N176	MO		90	3.0	20	40	10	45	2.0	500	1.0	3*	30	PG	72	AF	0.3
2N176	RC	.02	90	3.0		40	10	45	2.0	500	1.0	3*	30	PG	72	AF	0.3
2N178	MO		90	3.0	30	30	20	30	2.0	500	1.0	3*	30	PG	72	AF	0.8
2N180*	CE	.15				30		60	6.0	1.0*	.27			PG	13	GP	
2N181*	CE	.25				30		60		1.0*	.27			PG	13	GP	
2N182*		0.1				25	15	25	1.0	12	DC	3.0	10	NG	13	SW	
2N183*		0.1				25	15	50	1.0	25	DC	3.0	10	NG	13	SW	
2N184*		0.1				25	15	100	1.0	50	DC	3.0	10	NG	13	SW	
2N186A	GE	0.2		0.2	20	25	5.0	24	1.0	100	DC	16	25	PG	45	AF	0.8*
2N187A	GE	0.2		0.2	20	25	5.0	36	1.0	100	DC	16	25	PG	45	AF	1.0*
2N188A	GE	0.2		0.2	20	25	5.0	54	1.0	100	DC	16	25	PG	45	AF	1.2*
2N189	GE	0.2		0.2	20			32	5.0	1.0	1.0	16	25	PG	45	AF	0.8*
2N190	GE	0.2		0.2	20			42	5.0	1.0	1.0	16	25	PG	45	AF	1.0*
2N191	GE	0.2		0.2	20			67	5.0	1.0	1.0	16	25	PG	45	AF	1.2*
2N192	GE	0.2		0.2	20			90	5.0	1.0	1.0	16	25	PG	45	AF	1.5*
2N193	SY	.15		0.1	14	18	5.0	7.5	6.0	1.0	455			NG	67	RF	2.0
2N194A	SY	.15		0.1	14	18	5.0	8.0	6.0	1.0	455			NG	67	RF	2.0
2N195*	TE	0.1	0.2		12	12	6.0	180	5.0	1.0		10	12	PG	17	GP	
2N196*	TE	0.1	0.2		25	30	6.0	65	5.0	1.0		10	12	PG	17	GP	
2N197*	TE	0.1	0.2		25	30	6.0	50	5.0	1.0		10	12	PG	17	GP	
2N198*	TE	0.1	0.2		25	30	6.0	40	5.0	1.0		10	12	PG	17	GP	
2N199*	TE	0.1	0.2		25	30	6.0	25	5.0	1.0		10	12	PG	17	GP	
2N200*	TE	0.1	.35					45	5.0	1.0		10	12	PG	17	GP	
2N204*	TE	0.1	.35					80	5.0	1.0		10	12	PG	17	GP	
2N205*	TE	0.1	.35					25	5.0	1.0		10	12	PG	17	GP	
2N206	RC	.075		.05		30	12	47	5.0	1.0	1.0	10	30	PG	22	AF	
2N207	PH,RC	.05		.02	12			110				15	12	PG	20		
2N207A	PH	.05		.02	12			110				10	12	PG	20		
2N207B	PH	.05		.02	12			110				10	12	PG	20		
2N212	SY	.15		0.1	14	18	5.0	20	6.0	1.0	455			NG	67	RF	4.0
2N213	SY	.18		0.1	20	40	10	250	6.0	1.0	455	50	40	NG	67	AF	0.5
2N213A	SY	.18		0.1	20	40	10	250	6.0	1.0	1.0	50	40	NG	67	AF	0.5
2N214	SY	.18		0.1	25	40	25	75	1.5	35	DC	50	40	NG	67	AF	0.5
2N215	RC	.15		.05		30		44			DC	10	30	PG	22	AF	0.7
2N217	RC	.15		.07		25		75			DC	14	25	PG	22	AF	
2N217A	RA	.12		0.2	10							1.0	2.0	PG	67	GP	
2N218	RC	.035		.015		16		48	9.0	1.0	1.0	1.0	6.0	PG	22	RF	4.7
2N219	RC	.08		.015		16	0.5	75	9.0	0.6	1.0	6.0	12	PG	22	RF	
2N220	RC	.02		.002		10		65	4.0	0.5	1.0	12	25	PG	22	AF	
2N223	PH	.25		.06	18			115				20	9	PG	19	AF	
2N224	PH	.25		.15	25			60	0.6	100		25	12	PG	19	AF	
2N225	PH	MATCHED PAIR OF 2N224S															
2N226	PH	.25		.06	30			35	0.6	100		25	30	PG	19	AF	
2N227	PH	0.1		.15		25						25	12	PG	19	GP	
2N228	SY	.18		0.1	12	40	10	100	6.0	1.0	1.0	100	40	NG	67	AF	0.5
2N229	SY	.18		0.1	8.0	10	20	75	6.0	1.0	1.0	100	40	NG	67	GP	0.6
2N230	SF	.24		0.2	20	30		44	5.0	1.0	.27			PG	2	GP	
2N232	PH	.009		.003	4.5	4.5		25	3.0	0.5	1.0	6.0	5.0	PG	19	RF	
2N233	SY	.15		0.1	8.0	10	5.0	9.0	6.0	1.0	455			NG	67	RF	2.0*
2N233A	SY	.15		0.1	15	18	5.0	9.0	6.0	1.0	455			NG	67	RF	2.0*
2N234A	BN	25	25	3.0		30		35	5.0	500	DC	5*	25	PG	72	AF	1.5
2N235A	BN		25	3.0	40	50		35	5.0	500	DC	5*	15	PG	72	GP	1.5
2N235B	BN		25	3.0	40	50		35	5.0	500	DC	2*	15	PG	72	GP	1.5
2N236A	BN		60	3.0	40	50		35	2.0	5*	DC	1*	25	PG	72	GP	1.5
2N236B	BN		60	3.0	40	50		35	2.0	5*	DC	1*	25	PG	72	GP	1.5
2N240	PH,SR	.03		.015	6.0	6.0		40	3.0	0.5	DC	3.0	5.0	PG	19	SW	50
2N241	GE	0.1		0.2	20	25	5.0	73	1.0	100	DC	16	25	PG	45	AF	1.3*
2N241A	GE	0.2		0.2	20	25	5.0	73	1.0	100	DC	16	25	PG	45	AF	1.3*
2N242*	TS		50	15	35							1*	25	PG	72	AF	
2N243	NS,TI		.75	.06	60	60	1.0	20		60		1.0	30	NS	2	GP	
2N244	TI		.75	.06	60	60	1.0	57		60		1.0	30	NS	2	GP	
2N247	RC	.035		.01		35	1.0	60	9.0	1.0	1.0	16	30	PG	37	RF	
2N247/33	SY	.12	.24	.01	40	40	0.5	60	9.0	1.0	1.0	50	40	PG	7	RF	1.5
2N250	TI		25	3.0		30		90		500	DC	1*	30	PG	72	AF	.01
2N250A	TI		90	7.0		40	20	60	1.5	3.0	DC	1*	30	PG	72	GP	
2N251	TI		25	3.0		60		90		500	DC	2*	60	PG	72	AF	.01

2N251A

2N327B

TRANSISTOR obsolete*	MFG	MAXIMUM						GAIN				MAX	@	TYPE	BASE	USE	typ
		P_C (watts)		I_C amps	V_{CE}	V_{CB}	V_{EB}	typ h_{fe}	V_{CE}	I_C ma amp*	freq kc mc*	I_{CBO} μa ma*	V_{CE}				f_t $f_{\alpha b}$*
		T_A	T_C														
2N251A	TI		90	7.0		60	20	55	1.5	3*	DC	2*	60	PG	72	GP	
2N252	PH	.03		.005	16									PG		RF	
2N253	PH	.065		.005	12									NG		RF	
2N254	PH	.065		.005	20									NG		RF	
2N255	MO		65	3.0	30	30	15	55	2.0	500	1.0	20*	30	PG	72	AF	
2N255A	DR			5.0		15	15					5*	15	PG	72	AF	
2N256	DR			3.0		30	30	15		500	DC			PG	72	AF	0.1*
2N256A	DR			5.0		25	15					5*	25	PG	72	AF	
2N257	CV		45	3.0	15	3.0	15	40	20			2*	80	PG	72	GP	
2N265	GE	.075		.05	20			110	5.0	1.0	1.0	16	25	PG	45	AF	1.5*
2N268	CV		45	3.0	45	80						2*	20	PG	72	GP	
2N270	RC	.25		.075		25	12	70	1.0	150		16	25	PG	32	AF	
2N271	RA	.15		0.2	10			45				1.0	12	PG	67	GP	
2N272	RA	.15		0.1	24			90				6.0	20	PG	67	GP	
2N273	RA	.15		0.1	12			140				6.0	20	PG	67	GP	
2N274	RC	.12	24	.01		40	0.5	60	12	1.5	1.0	12	12	PG	41	RF	30*
2N277	BN,DR,RC,MO		150	15	25	40	20	52	2.0	5*	DC	7*	40	PG	43	GP	.75
2N278	BN,MO,DR		150	15	30	50	30	52	2.0	5*	DC	7*	50	PG	43	GP	.75
2N279	AP	.125		.04	30			30		0.5		5.0	4.5	PG	16	GP	0.3
2N280	AP	.125		.04	30			50		3.0		5.0	4.5	PG	16	GP	0.3
2N281	AP	.165		0.2	32			85		10		4.5	10	PG	34	GP	.35
2N284	AP	.166		0.2	32			55		250		4.5	10	PG	34	SW	.35
2N284A	AP	.166		0.2	60			65		250		4.5	10	PG	34	SW	
2N291	TI	.18	0.3	0.2	25	25		45	0.5	100	DC	25	25	PG	67	AF	
2N292	GE	.065		.02	15	15		25	1.0	1.0	DC	5.0	15	NG	67	RF	8.0*
2N293	GE	.065		.02	15	15		25	1.0	1.0	DC	5.0	15	NG	67	RF	8.0*
2N297	CV		15	5.0		60		55	3.0	500	DC	0.2	6.0	PG	72	GP	
2N297A	BN,CG,CV,DR		35	5.0	50	60	40	50	2.0	2*	DC	3*	60	PG	72	GP	0.5
2N297A	MO		90	3.0		60	40	65	2.0	500	DC	200	2.0	PG	72	GP	0.5
2N297A USA	MO		90	3.0		60	40	65	2.0	500	DC	200	2.0	PG	72	GP	0.5
2N299	PH	.02		.005	5.0							3.0	5.0	PG	19		
2N300	PH	.02		.005	5.0			20				3.0	5.0	PG	19		
2N301	CV		45	3.0	20	40	35	100	2.0	1*	DC	100*	0.5	PG	72	AF	
2N301	DR,RC		30	3.0	20	40	12	63	12	700	1.0	3*	30	PG	72	AF	
2N301	RC		30	10	50	60	10	90	2.0	1*	DC	500	30	PG	72	AF	.45
2N301A	CV,DR,RC		30	3.0	30	60	12	63	12	700	1.0	5*	40	PG	72	AF	
2N301A	RC		30	10	50	80	10	90	2.0	1*	DC	500	30	PG	72	AF	.45
2N306	SY	.18			12	20	10	125	6.0	1.0	1.0	20	20	NG	67	AF	0.6
2N307	DR,RC		10	3.0	35	35		20		200	DC	10*	35	PG	72	GP	
2N307A*	TS			5.0	35	35	10					2*	25	PG	72	GP	
2N310	PH	.03		.005	30									PG		RF	
2N311	GT	0.1				15						50	15	PG		GP	
2N312	GT,SY	0.1		0.2	15	15	15	75	1.0	10	DC	10	15	NG	2	SW	
2N315	GT	0.1		0.5	15	20	20					2.0	5.0	PG	4	SW	
2N315A	GT,TA	.15			20	25	20	35		100	DC	2.0	5.0	PG	2	GP	5.0*
2N316	GT	0.1		0.5	10	20	20					2.0	5.0	PG	2	SW	
2N316A	GT,TA	.15			15	25	20	35		200	DC	2.0	5.0	PG	2	GP	9.0
2N317	GT	0.1		0.5	6.0	20	20					2.0	5.0	PG	2	SW	
2N317A	GI,GT,PH	.15		0.5	10	25	20	180	5.0	1.0	1.0	2.0	5.0	PG	5	RF	20*
2N318	GT	.05		.02		12		100	5.0	1.0	1.0			PG		GP	
2N319	GE,SF	.24		0.2	20	30	3.0	30	5.0	1.0	.27	16	25	PG	2	GP	2.0*
2N320	GE	.24		0.2	20	30	3.0	45	1.0	100	DC	16	25	PG	4	AF	3.0*
2N320	MO	.225		0.5	20	25	5.0	30	1.0	100	DC	16	25	PG	4	AF	1.5*
2N321	GE,SF	.24		0.2	20	30	3.0	64	5.0	1.0	.27	16	25	PG	2	GP	2.0*
2N321	MO	.225		0.5	20	25	5.0	47	1.0	100	DC	16	25	PG	4	AF	2.0*
2N321	SY	0.2		0.2	30			90	1.0	150	DC	16	25	PG	4	AF	10*
2N322	GE	0.2		0.2		18	5.0	44	5.0	1.0	1.0	16	16	PG	4	AF	3.0*
2N322	MO	.225		0.5	16	18	5.0	50	1.0	20	DC	16	16	PG	4	AF	1.0*
2N322	SF	.14		0.1	16	20		44	5.0	1.0	1.0	16	16	PG	2	GP	
2N323	GE	0.2		0.2		18	5.0	70	5.0	1.0	1.0	16	16	PG	4	AF	3.5*
2N323	MO	.225		0.5	16	18	5.0	79	1.0	20	DC	16	16	PG	4	AF	2.0*
2N323	SF	.14		0.1	16	20	5.0	64	5.0	1.0	1.0	16	16	PG	2	GP	
2N324	GE	0.2		0.2	16	18	5.0	80	5.0	1.0	1.0	16	16	PG	4	AF	4.0*
2N324	MO	.225		0.5	16	18	5.0	125	1.0	20	DC	16	16	PG	4	AF	2.0*
2N324	SF,SY	.14		0.1	16	20	5.0	81	5.0	1.0	1.0	16	16	PG	4	GP	
2N326*	CE		20	3.0	30	35	15					500	35	NG	72	GP	
2N326	SY		7.0	2.0	35	35	35	23	1.0	1*	DC	500	35	NG	72	GP	.15
2N327	RA	.337		.05	40			14				.005	20	PS	14	GP	
2N327A	CY,HU,NS,SP	.385		0.1	40	50	40	12	5.0	3.0	1.0	0.1	30	PS	2	GP	0.2*
2N327A	KF	.385		.05	40	50	20	14	5.0	3.0	1.0	0.1	30	PS	2	GP	0.2*
2N327A	RA	.337		0.1	50			15	5.0	3.0	1.0	.005	30	PS	14	GP	
2N327B	CY	0.4		0.1	40	50	20	14	5.0	3.0	1.0	.001	30	PS	2	GP	0.3

TRANSISTOR obsolete*	MFG	MAXIMUM						GAIN				MAX	@	TYPE	BASE	USE	typ
		P_C (watts)		I_C amps	V_{CE}	V_{CB}	V_{EB}	typ h_{fe}	V_{CE}	I_C ma amp*	freq kc mc*	I_{CBO} μa ma*	V_{CE}				f_t $f_{\alpha b}$*
		T_A	T_C														
2N328	RA	.337		.05	30			24				.005	20	PS	14	GP	
2N328A	CY,HU,KF,SP	.385		0.1	35	50	20	28	5.0	3.0	1.0	0.1	30	PS	2	GP	0.3*
2N328A	NS	.385		.16	35	50	20	15	5.0	3.0	1.0	0.1	30	PS	2	GP	
2N328A	RA	.385				30		28	5.0	3.0		1.0		PS	14	GP	
2N328B	CY	0.4		0.1	35	50	20	28	5.0	3.0	1.0	.001	30	PS	2	GP	0.5
2N329	RA	.337		.05	20			50				.005	20	PS	14	GP	
2N329A	CY,HU,KF,NS,SP	.385		0.1	30	50	20	60	5.0	3.0	1.0	0.1	30	PS	2	GP	0.5*
2N329A	RA	.385				20		60	5.0	3.0		1.0	20	PS	14	GP	
2N329B	CY	0.4		0.1	30	50	20	60	5.0	3.0	1.0	.001	30	PS	2	GP	0.7
2N330	RA	.337		.05	20			30				.005	20	PS	14	GP	
2N330A	CY,KF,SP	0.4		0.1	30	50	20	25	5.0	3.0	1.0	1.0	30	PS	2	GP	0.5*
2N330A	RA	.337		0.1	50			30	5.0	3.0	1.0	.005	30	PS	14	GP	
2N331	BN,GT,MO,RC,TA	0.2		0.2	16	30	12	60	6.0	1.0	1.0	14	30	PG	14	GP	0.9*
2N331 JAN	MO	0.2		0.2		30	12	45	6.0	1.0	1.0	10	30	PG	2	GP	0.6*
2N331M	BN	.075		0.2		30	12	60	6.0		1.0	10	30	PG	14	GP	0.9*
2N332	TE	.15		.025	45	45	1.0	14	5.0	1.0	1.0	50	45	NS	2	GP	7.0*
2N332	GE,TI	.15		.025	45	45	1.0	14	5.0	1.0	1.0	2.0	30	NS	2	GP	4.0
2N332A	GE,TI	0.5		.025	45	45	4.0	16	5.0	1.0	1.0	0.5	30	NS	5	RF	1.0
2N332 USN	NS	.15				45	1.0	15		25		2.0		NS	2	GP	
2N333	TE	.15		.025	45	45	1.0	28	5.0	1.0	1.0	50	45	NS	2	GP	
2N333	GE,TI	.15		.025	45	45	1.0	28	5.0	1.0	1.0	2.0	30	NS	2	GP	5.0
2N333A	GE,NS,TI	0.5		.025	45	45	4.0	30	5.0	1.0	1.0	0.5	30	NS	5	RF	1.0
2N333 USN	NS	.15				45	1.0	29		25		2.0		NS	2	GP	
2N334	TE	.15		.025	45	45	1.0	45	5.0	1.0	1.0	50	45	NS	2	GP	
2N334	GE,TI	.15		.025	45	45	1.0	45	5.0	1.0	1.0	2.0	30	NS	2	GP	8.0
2N334A	GE,NS,TI	0.5		.025	45	45	4.0	38	5.0	1.0	1.0	0.5	30	NS	5	RF	4.0
2N334 USN	NS	.15				45	1.0	54		25		2.0		NS	2	GP	
2N335	GE,TI	.15		.025	45	45	1.0	60	5.0	1.0	1.0	2.0	30	NS	2	GP	10
2N335	TE	.15		.025	45	45	1.0	60	5.0	1.0	1.0	50	45	NS	2	GP	10*
2N335A	GE,NS,TI	0.5		.025	45	45	4.0	60	5.0	1.0	1.0	0.5	30	NS	5	RF	1.0
2N335 USN	NS	.15				45	1.0	63		25		2.0		NS	2	GP	
2N336	NS,TE	.15		.025	45	45	1.0	100	5.0	1.0	1.0	50	45	NS	2	GP	
2N336	GE,TI	.15		.025	45	45	1.0	100	5.0	1.0	1.0	2.0	30	NS	2	GP	7.0
2N336A	GE,NS,TI	0.5		.025	45	45	4.0	100	5.0	1.0	1.0	0.5	30	NS	5	RF	1.0
2N337	GE,NS,SF,TI	.125		.02	30	45	1.0	55	20	1.0	1.0	1.0	20	NS	2	GP	40
2N337	TE	.125		.02	30	45	1.0	65	20	1.0	1.0	50	45	NS	2	RF	20*
2N337A	GE	0.5		.02		45	2.5	55	20	1.0	1.0	0.5	30	NS	2	GP	40
2N338	GE,NS,SF,TI	.125		.02	30	45	1.0	99	20	1.0	1.0	1.0	20	NS	2	GP	40
2N338	TE	.125		.02	30	45	1.0	99	20	1.0	1.0	50	45	NS	2	RF	30*
2N338A	GE	0.5		.02		45	2.5	99	20	1.0	1.0	0.5	30	NS	2	GP	40
2N339	TE	1.0	5.0	0.1	55	55	1.0	45	10	5.0	1.0	1.0	30	NS	2	GP	
2N339	TI	1.0	1.0	.06	55	55	1.0					1.0	30	NS	2	AF	
2N339A	TE	1.0	5.0	0.1	60	60	3.0	55	10	5.0	1.0	1.0	30	NS	5	GP	
2N340	TE	1.0	5.0	0.1	85	85	1.0	45	10	5.0	1.0	1.0	30	NS	2	GP	
2N340	TI		1.0	.06	85	85	1.0					1.0	30	NS	2	AF	
2N340A	TE	1.0	5.0	0.1	85	85	3.0	55	10	5.0	1.0	1.0	30	NS	5	GP	
2N341	TE	1.0	5.0	0.1	125	125	1.0	45	10	5.0	1.0	1.0	30	NS	2	GP	
2N341	TI		1.0	.06	85	125	.10					1.0	30	NS	2	AF	
2N341A	TE	1.0	5.0	0.1	125	125	3.0	55	10	5.0	1.0	1.0	30	NS	5	GP	
2N342	TE	1.0	5.0	0.1	60	60	1.0	20	10	5.0	1.0	1.0	30	NS	2	GP	
2N343	TI		1.0	.06	60	60	1.0					1.0	30	NS	2	AF	
2N342A	TI		1.0	.06	85	85	1.0					1.0	30	NS	2	AF	
2N342B	TI	.75	1.0		85	85	2.0	20	10	5.0	1.0	1.0	30	NS	3	AF	
2N343	TE	1.0	5.0	0.1	60	60	1.0	20	10	5.0	1.0	1.0	30	NS	2	GP	
2N343	TI		1.0	.06	60	60	1.0					1.0	30	NS	2	AF	
2N343B	TI	.75	1.0		65	65	2.0	60	10	5.0	1.0	1.0	80	NS	3	AF	
2N344	PH,SR	.02		.005	5.0	5.0		20	3.0	0.5	DC	3.0	5.0	PG	19	RF	
2N345	PH,SR	.02		.005	5.0	5.0		70	3.0	0.5	DC	3.0	5.0	PG	19	GP	
2N346	PH	.02		.005	5.0	5.0		25	3.0	0.5	DC	3.0	5.0	PG	19	GP	
2N349*	CE	0.1			20	30	25	35	6*	1.0	.27	10	25	N	14	SW	
2N350A	MO		90	3.0	35	50		30	2.0	700	1.0	3*	30	PG	72	GP	0.8
2N351	RC		10	3.0		40		45	2.0	0.7	1.0	3*	30	PG	72	AF	
2N351A	MO		90	4.0	35	50		45	2.0	700	1.0	3*	30	PG	72	GP	0.8
2N356	GT,RC,SY,TA	0.1		0.5	18	20	20	30	.25	100	DC	5.0	5.0	NG	2	SW	2.0
2N356A	CE,GT,SY,TA	.15		0.5	20	30	20	20	.25	100	DC	25	30	NG	14	GP	2.0
2N357	CE,GT,RC	0.1		0.5	15	20	20	45	5.0	1.0	1.0	25	20	NG	14	SW	
2N357	SY,TA	0.1		0.5	15	20	20	45	5.0	1.0	1.0	10	25	NG	2	GP	5.0
2N357A	GT,SY,TA	.15		0.5	20	30	20	45	5.0	1.0	1.0	5.0	5.0	NG	2	GP	5.0

TRANSISTOR obsolete*	MFG	MAXIMUM P_C (watts) T_A	MAXIMUM P_C (watts) T_C	MAXIMUM I_C amps	MAXIMUM V_{CE}	MAXIMUM V_{CB}	MAXIMUM V_{EB}	GAIN typ h_{fe}	GAIN V_{CE}	GAIN I_C ma amp*	GAIN freq kc mc*	MAX I_{CBO} μa ma*	@ V_{CE}	TYPE	BASE	USE	typ f_t $f_{\alpha b}$*
2N358	CE,GT,RC, SY,TA	0.1		0.5	12	20	20	60	5.0	1.0	DC	25	20	NG	14	SW	7.0
2N358A	GI,TA	.15			30	30		40	.25	300	DC	5.0	30	NG	5	SW	6.0
2N358A	SY	.15			15	30	20	65	1.0	300	DC	25	30	NG	2	SW	
2N359	RA	0.2		0.4	22							15	12	PG	14	AF	
2N360	RA	0.2		0.4	22							15	12	PG	14	AF	
2N361	RA	0.2		0.4	22							15	12	PG	14	AF	
2N362	RA	.168		0.4	20			120			DC	10	20	PG	14	GP	
2N363	RA	.168		0.4	40			50			DC	10	20	PG	14	GP	
2N370	RC	.08		.01		20	1.5	60	12	1.0	1.0	20	12	PG	37	RF	132
2N370/33	SY	.08		.01		24	0.5	100	12	1.0	1.0	10	12	PG	7	RF	20
2N371	RC	.08		.01		20	0.5					20	12	PG	37	RF	
2N371/33	SY	.08		.01		24	0.5	100	12	1.0	1.0	10	12	PG	7	RF	20
2N372	RC	.08		.01		20	0.5	60	12	1.0	1.0	20	12	PG	37	RF	132
2N372/33	SY	.08		.01		24	0.5	100	12	1.0	1.0	10	12	PG	7	RF	20
2N373	RC	.08		.01		25	0.5	60	12	1.0	1.0	8.0	12	PG	37	RF	
2N374	RC	.08		.01		25	0.5	60	12	1.0	1.0	8.0	12	PG	37	RF	
2N375	BN		90	3.0		80	12	22	4.0	3*	DC	3*	60	PG	72	GP	0.8
2N375	MO		90	3.0	40	80	40	55	40	1.0	DC	3*	60	PG	72	GP	0.8
2N376	RC		.01	.003		40		60	2.0	700	1.0	3.0	30	PG	72	AF	
2N376A	MO		90	5.0	35	50		60	2.0	700	1.0	3*	30	PG	72	GP	0.8
2N377	SF,SY	.15		0.2	15	25	15	35	1.0	30	DC	20	20	NG	14	GP	5.0
2N377A	SY	0.2		0.2	35	40	15	60	0.5	30	DC	40	40	NG	4	SW	5.0
2N378*	TS		50	5.0	20							500	25	PG	72	GP	
2N379	DR		50	7.0	40		20	50		2*	DC	500	25	PG	72	GP	
2N380	DR		50	7.0	30		20	50		2*	DC	500	25	PG	72	GP	
2N381	SY,TS	0.2	0.5	0.4	20	50	20	60	5.0	10	1.0	10	25	PG	2	GP	1.5
2N382	SY,TS	0.2	0.5	0.4	20	50	20	90	5.0	10	1.0	10	25	PG	2	GP	3.0
2N383	SY,TS	0.2	0.5	0.4	20	50	20	115	5.0	10	1.0	10	25	PG	2	GP	4.0
2N384	CG,RC	.12		.01		40	0.5	90	12	1.5	1.0	16	12	PG	41	RF	70
2N384/33	SY	.12	.24	.01	40	40	0.5	110	12	1.5	1.0	12	12	PG	7	RF	80
2N385	CE,SY,TA	.15		0.2	25	25	15	40	.75	200	DC	10	25	NG	4	SW	4.0
2N385A	SY	0.2		0.2		40	15	50	.75	200	DC	40	40	NG	4	SW	4.0
2N386	PH		12.5	3.0								5*	60	PG	74	GP	
2N387	PH		12.5	3.0								5*	80	PG	74	GP	
2N388	CE,CG,GT, RC,SF,TI	.15	0.3	0.2	20	25	15	90	0.5	30	DC	20	20	NG	14	GP	8.0
2N388	GE,SY,TA	.15		0.2	20	25	15	110	6.0	1.0	1.0	10	25	NG	4	GP	4.0
2N388A	RC,TI	.15	0.3	0.2		40	15	125	6.0	1.0	1.0	40	40	NG	4	SW	10
2N388A	SY	0.2		0.2	40	40	15	120	0.5	30	DC	40	40	NG	4	SW	8.0
2N388 USN	SY	.15		0.2	15	25	15	120	1.0	30	DC	30	20	NG	4	SW	5.0*
2N389	AF,TI	3.5	85	3.0	60	60	10	40	4.0	1*	DC	100	60	NS	77	GP	2.0
2N389	TI	3.5	82	2.0	60	60	10	30	15	1*	DC	100	60	NS	77	GP	
2N389 USN	AF		75	3.0		60	10	45	15	1*	DC	100	60	N	59	GP	
2N389A	AF		85	3.0		60	10	45	4.0	1*	DC	100	60	NS	77	GP	2.0
2N392	DR			5.0	45	60	40	100		3*	DC	150	2.0	PG	72	GP	
2N393	CE,PH,GI	.025		.05	4.0	6.0	5.0	70	3.0	0.5	5*	5.0	5.0	PG	18	SW	
2N393	SR	.025		.05	6.0	6.0	5.0	70	3.0	0.5	5*	5.0	6.0	PG	19	SW	50
2N394	GE	.15		0.2	10	30	20	40	1.0	100	DC	6.0	10	PG	2	GP	4.0
2N395	GE	0.2		0.2	15	30	20	60	1.0	10	DC	6.0	15	PG	2	GP	4.5
2N395	RC,SF,SY, TI	.15		0.2	15	30	20	75	1.0	10	DC	6.0	15	PG	2	GP	3.0
2N396	GE,SY	0.2		0.2	20	30	20	55	1.0	10	DC	6.0	20	PG	4	SW	5.0
2N396	CG,GI,GT, RC,SF,TA, TI,TS	.15	0.5	0.2	20	30	20	85	1.0	10	DC	6.0	20	PG	2	GP	8.0
2N396A	TS	0.2	0.5	0.2	15	30	20	90	1.0	10	DC	6.0	25	PG	2	SW	
2N396A	RC,SY	0.2		0.2	20	30	20	86	1.0	10	DC	6.0	20	PG	4	GP	5.0
2N396A USN	SY	.15		0.2	15	30	20	90	1.0	10	DC	6.0	20	PG	4	SW	6.0*
2N397	CG,SF,SY, TA,TI	.15		0.2	15	30	20	85	1.0	10	DC	6.0	15	PG	4	SW	10
2N397	RC	0.2		0.2	20	30	20	85	1.0	10	DC	6.0	20	PG	2	SW	13*
2N398	BN,MO,RC, TI	.05		0.1	105	105	50	50	6.0	1.0	1.0	50	105	PG	2	AF	0.5
2N398	SY	.15		0.2	105	105	50	60	.35	5.0	DC	50	105	PG	2	GP	0.5
2N398A	BN,MO,SY, TI	.15		0.2	105	105	50	50	6.0	1.0	1.0	50	105	PG	2	AF	0.5
2N398B	BN,TI	.25		0.2	105	105	50	90	6.0	1.0	1.0	25	105	PG	2	SW	
2N398B	RC	.25		0.2		105	75	55	6.0	1.0	1.0	25	105	PG	2	GP	12*
2N398 USN	MO	.15		0.2	105	105	50	65	.35	5.0	DC	50	105	PG	2	AF	0.6
2N404	CG,GE,GI, GT,PH,RC, SF,TA,TI	.15	0.3	0.1	24	25	12	120	6.0	1.0	1.0	5.0	12	PG	5	SW	10
2N404	KF	0.2		0.1	24	25	12	120	6.0	1.0	1.0	5.0	12	PG	2	SW	10*
2N404	MO,RA	.12		0.1	24	25	12	60	.15	12	DC	5.0	12	PG	14	GP	12*

TRANSISTOR obsolete*	MFG	MAXIMUM						GAIN			MAX	@	TYPE	BASE	USE	typ
		P_C (watts)		I_C amps	V_{CE}	V_{CB}	V_{EB}	typ h_{fe}	V_{CE}	I_C ma amp*	freq kc mc*	I_{CBO} μa ma*	V_{CE}				f_t $f_{\alpha b}$*
		T_A	T_C														
2N404	SY	.15		0.2		25	12	100	0.3	4.0	1.0	5.0	12	PG	2	SW	4.0
2N404A	RC,SF,TA,TI	.15	0.3	.15	35	40	25	86	5.0	10	.27	5.0	12	PG	2	SW	10
2N404A	SY	.15		0.2	35	40	25	135	6.0	1.0	1.0	5.0	12	PG	2	SW	10*
2N404 USAF	SY	.15		0.2	24	25	12					5.0	12	PG	2	SW	4.0
2N405	RC	.15		.035		20	2.5	35			1.0	14	12	PG	32	AF	.65*
2N406	PH,RC	.15		.035	18	20	2.5	35			DC	14	12	PG	2	AF	
2N407	RC	.15		.07		20	2.5	75*	1.0	50	DC	14	12	PG	32	AF	
2N408	RC	.15		.07		20	2.5	75*	1.0	50	DC	14	12	PG	2	AF	
2N409	RC	.08		.015		13	0.5	48	9.0	1.0	1.0	10	13	PG	32	RF	6.7*
2N410	RC	.08		.015		13	0.5	48	9.0	1.0	1.0	10	13	PG	2	RF	6.7*
2N411	RC	.08		.015		13	0.5	75	9.0	0.6	1.0	10	13	PG	32	RF	
2N412	RC	.08		.015		13	0.5	75	9.0	0.6	1.0	10	13	PG	2	RF	
2N413	GE,KA,SY,TA	.15		0.2	18	30	20	30	6.0	1.0	1.0	5.0	12	PG	4	GP	1.0
2N413	KF	0.2		0.2	18	30	20	30	6.0	1.0	1.0	5.0	12	PG	2	RF	2.5*
2N413*	TS	0.2		0.4	18	30	20	30	6.0	1.0	1.0	5.0	12	PG	2	RF	
2N413*	TS	0.1		0.2	15	30	20	50	6.0	1.0	1.0	10	12	PG	2	RF	
2N413A	SY	.15		0.2	18	30	20	50	6.0	1.0	1.0	5.0	12	PG	2	RF	2.0
2N414	GE,RA,RC,SY	.15		0.2	15	30	20	70	6.0	1.0	1.0	5.0	12	PG	4	SW	5.0
2N414	KF,TA	0.2		0.2	15	30	20	60	6.0	1.0	1.0	5.0	12	PG	2	RF	7.0*
2N414*	TS	0.2		0.4	15	30	20	60	6.0	1.0	1.0	5.0	12	PG	2	RF	
2N414A	SY	.15		0.2	15	30	20	60	6.0	1.0	1.0	5.0	12	PG	2	RF	2.0
2N414A*	TS	0.1		0.2	15	30	20					10	12	PG	2	RF	
2N416	GT,TA	.15		0.4	12	30	20	135	6.0	1.0	1.0	5.0	12	PG	2	GP	8.0
2N416	KF	0.2		0.2	12	30	20	80	6.0	1.0	1.0	5.0	12	PG	2	RF	10*
2N416	RA	.15		0.2	12			80				2.0	12	PG	14	GP	
2N417	GI,GT	.15		0.4	10	30	20	125	6.0	1.0	1.0	5.0	12	PG	2	GP	45*
2N417	KF,TA	0.2		0.2	10	30	20	140	6.0	1.0	1.0	5.0	12	PG	2	RF	20*
2N417	RA,SY	.15		0.2	10	30	20	100	6.0	1.0	1.0	3.0	12	PG	14	GP	12
2N418	BN		60	5.0	45	65		90	2.0	4*	DC	10*	25	PG	72	GP	
2N420	BN		60	5.0	70	90		90	2.0	4*	DC	15*	60	PG	72	GP	
2N420A	BN		60	5.0	80	100		90	2.0	4*	DC	15*	60	PG	72	GP	
2N422	RA	.15		0.1	20			50				6.0	20	PG	14	GP	
2N424	TE	3.5	82	2.0	80	80	10	30	15	1*	DC			NS	77	GP	
2N424	AF,TI	3.5	85	3.0	80	80	10	45	4.0	1*	DC	100	60	NS	77	GP	2.0
2N424A	AF		85	3.0		80	10	45	4.0	1*		100	60	NS	77	GP	2.0
2N425	KF,TA	0.2		0.4	20	30	20	15	.35	1.0	DC	25	30	PG	2	RF	4.0*
2N425	MO,RA,SY,TS	.15		0.4	20	30	20	30	.35	10	DC	25	30	PG	2	SW	2.5
2N426	KF,TA	0.2		0.4	18	30	20	18	.35	1.0	DC	25	30	PG	2	RF	6.0*
2N426	MO,RA,TI,TS	.15	0.3	0.4	18	30	20	25	.35	10	DC	25	30	PG	2	SW	6.0
2N427	GE,GI,MO,RA,SY,TI	.15	0.3	0.4	15	30	20	20	1.0	1.0	DC	25	30	PG	2	GP	5.0
2N427	KF,TA	0.2		0.4	15	30	20	20	.35	1.0	DC	25	30	PG	2	RF	11*
2N428	CG	.15	0.3	.15	12	30	20	80	.25	10	DC	25	30	PG	2	GP	
2N428	FT,GE,GI,MO,PH,RA,SY,TI	.15	0.3	0.4	12	30	20	80	.25	10	DC	25	30	PG	2	GP	10
2N428	KF,SY,TI,TA	0.2		0.4	12	30	20	30	.35	1.0	DC	25	30	PG	2	RF	18*
2N428 JAN	TS	.15		0.2	12	30						4.0	1.5	PG	2	RF	
2N438	GT	.15			25	30	25	20	6.0	1.0	1.0	6.0	25	NG	2	GP	
2N438	SY	.15			20	30	25	20	6.0	1.0	.27	10	25	NG	2	SW	2.5
2N438A*	CE	.15			25	30	25	25	1.0	50		10	25	NG	14	SW	2.5
2N438A	SY	0.2			20	30	25	25	6.0	1.0	.27	10	25	NG	4	SW	2.5
2N439	GT	.15			20	30	25	50	6.0	1.0	1.0	10	25	NG	2	GP	5.0
2N439*	CE	.15			20	30	25	35	6*	1.0	.27	10	25	NG	14	SW	5.0
2N439A	SY	0.2			20	30	25	35	6.0	1.0	.27	10	25	NG	4	SW	5.0
2N440	GT	.15			15	30	25	125	6.0	1.0	1.0	10	25	NG	5	GP	30*
2N440	SY	.15			20	30	25	65	6.0	1.0	.27	10	25	NG	2	SW	10
2N440*	CE	.15			15	30	25	65	6*	1.0	.27	10	25	NG	14	SW	10
2N440A	SY	0.2			20	30	25	65	6.0	1.0	.27	10	25	NG	4	SW	10
2N441	BN,DR,MO		150	15	25	40	20	30	2.0	5*	DC	7*	40	PG	43	GP	0.8
2N441	RC		150	15	40		20	20	2.0	12	DC	2*	40	PG	43	SW	.75
2N441	SR		70	15	25	40	20	30	2.0	5*	DC	1*	40	PG	43	GP	
2N442	BN,DR,MO,RC		150	15	30	50	30	30	2.0	5*	DC	7*	50	PG	43	GP	0.8
2N442	RC		150	15	45	50	30	20	2.0	12	DC	2*	40	PG	43	SW	.75
2N443	BN,DR,MO		150	15	45	60	40	30	2.0	5*	DC	7*	60	PG	43	GP	0.8
2N443	RC		150	15	55		40	20	2.0	12	DC	2*	60	PG	43	SW	.75
2N444A	GT,TA	.15			25	35	10	25	5.0	1.0	1.0	4.0	5.0	NG	2	GP	
2N445A	GT,TA	.15			18	25	10	70	5.0	1.0	1.0	4.0	5.0	NG	2	GP	

TRANSISTOR obsolete*	MFG	MAXIMUM P_C (watts) T_A	MAXIMUM P_C (watts) T_C	MAXIMUM I_C amps	GAIN V_{CE}	GAIN V_{CB}	GAIN V_{EB}	GAIN typ h_{fe}	GAIN V_{CE}	GAIN I_C ma amp*	GAIN freq kc mc*	MAX I_{CBO} μa ma*	@ V_{CE}	TYPE	BASE	USE	typ f_t $f_{\alpha b}$*
2N446A	GT,TA	.15			15	25	10	120	5.0	1.0	1.0	4.0	5.0	NG	2	GP	
2N447A	GI,GT,TA	.15			12	25	10	150	5.0	1.0	1.0	4.0	5.0	NG	5	GP	27*
2N448	GE	.065		.05	15	15		25	1.0	1.0	DC	5.0	15	NG	67	RF	5.0*
2N449	GE	.065		.02	15	15		72	1.0	1.0	DC	5.0	15	NG	67	RF	8.0*
2N450	GE	.15		.125	12	20	10	125	5.0	1.0	1.0	6.0	12	PG	45	SW	3.0
2N456	RC		50	5.0		40						2*	40	PG	72	SW	
2N456A	DR,TI		150	7.0	20	40	20	60		5*	DC	2*	40	PG	72	GP	.43
2N456B	DR,TI		150	7.0	30	40	30	60	1.5	5*	DC	2*	40	PG	72	GP	0.5
2N457	RC		50	5.0		60						2*	60	PG	72	SW	
2N457A	DR,TI			7.0	30	60	20	60		2*	DC	2*	60	PG	72	GP	.43
2N457B	DR,TI		150	7.0	40	60	30	60	1.5	5*	DC	2*	60	PG	72	GP	0.5
2N458A	DR,TI		150	7.0	40	80	20	60		5*	DC	5*	80	PG	72	GP	.43
2N458B	DR,TI		150	7.0	45	80	30	60	1.5	5*	DC	2*	80	PG	72	GP	0.5
2N459*	TS		50	5.0	60							5*	2.0	PG	72	GP	
2N459A*	TS		106	5.0	60	105						25	0.5	PG	72	GP	
2N460	TA,TS	.225		0.4	35	45	10	55	1.5	100	DC	15	45	PG	4	GP	3.0*
2N461	GE,TS	0.2		0.4	30	45	10	120	5.0	1.0	1.0	15	45	PG	4	GP	2.0
2N461 USAF	MO,TS	0.2		.25	30	45	10					10	45	PG	2	GP	1.5
2N462	PH	.15		0.2	40			20	0.5	200		35	35	PG	19	GP	
2N463 USN	WE		50	10	60	60	50	60	2.0	2*	DC	300	40	PG	55	GP	.25
2N464	GT	.12		0.4	40	40	12	25	6.0	1.0	1.0	15	12	PG	14	GP	
2N464	MO	.15		0.1	40	45	12	26	6.0	1.0	1.0	15	20	PG	14	AF	1.0
2N464	RA,SY	.16		0.4	40	40	12	24	6.0	1.0	1.0	20	40	PG	2	AF	0.4
2N465	GT	.12		0.4	30	40	12	50	6.0	1.0	1.0	15	12	PG	14	GP	
2N465	MO,TA	.15		0.1	30	45	12	45	6.0	1.0	1.0	15	20	PG	14	GP	0.8
2N465	RA,SY	.15		0.4	30	40	12	57	6.0	1.0	1.0	20	40	PG	2	AF	0.5
2N465 USA	MO	.15		0.1	30	45	12	45	6.0	1.0	1.0	15	20	PG	14	AF	1.5
2N466	GT	.12		0.4	20	35	12	90	6.0	1.0	1.0	15	12	PG	14	GP	
2N466	MO,TA	.15		0.1	20	35	12	90	6.0	1.0	1.0	15	20	PG	14	GP	2.0
2N466	RA,SY	.16		0.4	20	35	12	110	6.0	1.0	1.0	15	12	PG	2	AF	0.5
2N466 JAN	MO	.15		0.1	20	35	12	90	6.0	1.0	1.0	15	20	PG	14	AF	2.0
2N467	GT	.12		0.4	15	35	12	185	6.0	1.0	1.0	15	12	PG	14	GP	
2N467	MO,TA	.15		0.1	15	35	12	180	6.0	1.0	1.0	15	20	PG	14	GP	1.2
2N467	RA,SY	.16		0.4	15	35	12	220	6.0	1.0	1.0	15	12	PG	2	AF	0.6
2N467 USA	MO	.15		0.1	15	35	12	180	6.0	1.0	1.0	15	20	PG	14	AF	2.5
2N470	GE,TE	0.2		.025	15	15	2.0	16	6.0	1.0	1.0	0.5	15	NS	2	GP	30
2N471	GE,TE	0.2		.025	30	30	2.0	16	6.0	1.0	1.0	0.5	30	NS	2	GP	30
2N472	GE,NS,TE	0.2		.025	45	45	2.0	16	6.0	1.0	1.0	0.5	45	NS	2	GP	30
2N472A	TE	0.2		.025	45	45	2.0	17	6.0	1.0	1.0	0.5	45	NS	2	RF	30
2N473	GE,NS,TE	0.2		.025	15	15	2.0	30	6.0	1.0	1.0	0.5	15	NS	2	GP	30
2N474	GE,NS,TE	0.2		.025	30	30	2.0	30	6.0	1.0	1.0	0.5	30	NS	2	GP	30
2N475	GE,NS,TE	0.2		.025	45	45	2.0	30	6.0	1.0	1.0	0.5	45	NS	2	GP	30
2N475A	TE	0.2		.025	45	45	2.0	35	6.0	1.0	1.0	0.5	45	NS	2	RF	30
2N476	TE	0.2		.025	15	15	2.0	45	6.0	1.0	1.0	0.5	15	NS	2	GP	
2N477	TE	0.2		.025	30	30	.20	45	6.0	1.0	1.0	0.5	30	NS	2	GP	
2N478	GE,TE	0.2		.025	15	15	2.0	60	6.0	1.0	1.0	0.5	15	NS	2	GP	30
2N479	GE,TE	0.2		.025	30	30	2.0	60	6.0	1.0	1.0	0.5	30	NS	2	GP	39
2N480	GE,TE	0.2		.025	45	45	2.0	60	6.0	1.0	1.0	0.5	45	NS	2	GP	39
2N480A	TE	0.2		.025	45	45	2.0	80	6.0	1.0	1.0	0.5	45	NS	2	RF	
2N481	RA	.05		.02	12							3.0	12	PG	14	GP	
2N482	RA	.05		.02	12		12	65	6.0	1.0	1.0	3.0	12	PG	14	GP	
2N482	SY	.15		.02	12	12		65	6.0	1.0	1.0	10	12	PG	2	RF	
2N483	RA	.05		.02	12			80	6.0	1.0	1.0	3.0	12	PG	14	GP	
2N483	SY	.15		.02	12	12		80	6.0	1.0	1.0	10	12	PG	2	RF	
2N484	RA	.05		.02	10	12		90	6.0	1.0	1.0	3.0	12	PG	14	GP	
2N484	SY	.15		0.2	12	12		90	6.0	1.0	1.0	8.0	12	PG	2	RF	
2N485	RA	.05		.02	12							3.0	12	PG	14	GP	
2N486	RA	.05		.012	10							3.0	12	PG	14	GP	
2N495	PH	.15		.05	25			25				0.1	10	PS	20		
2N496	PH	.15		.05	10							0.1	10	PS	20		
2N497	AP,FS,GE, NS,PS,RH, TI	0.8	4.0		60	60	8.0	24	10	50	20*	10	40	NS	2	RF	50
2N497	RC		4.0	0.4	60	60	8.0	24	10	200	DC	10	10	NS	2	SW	
2N497	TE	0.6	4.0	0.4	60	60	8.0	4.0	20	100	1*	200	30	NS	5	GP	
2N497A	GE	0.8	4.0		60	60	8.0	24	10	200	DC	10	30	NS	5	GP	
2N498	AP,FS,GE, NS,PS,RH, TI	0.8	4.0		100	100	8.0	24	10	50	20*	10	40	NS	2	RF	70
2N498	TE	0.6	4.0	0.4	100	100	8.0	4.0	20	100	1*	200	30	NS	4	GP	
2N498	TI	0.9	4.0		100	100	8.0	30	30	30	1.0	.01	30	NS	5	GP	
2N498A	GE	0.8	4.0		100	100	8.0	24	10	200	DC	10	30	NS	5	GP	
2N499	GI,PH,SR	.03		.05	18	30	0.5	18	10	2.0	20*	100	30	PG	20	RF	250
2N499A	SR	.06		.05	18			32			1.0	15	5.0	PG	22	SW	350
2N500	PH	.05		.05	20							5.0	5.0	PG	20		

TRANSISTOR obsolete*	MFG	MAXIMUM P_C (watts) T_A	MAXIMUM P_C (watts) T_C	MAXIMUM I_C amps	MAXIMUM V_{CE}	MAXIMUM V_{CB}	MAXIMUM V_{EB}	GAIN typ h_{fe}	GAIN V_{CE}	GAIN I_C ma amp*	GAIN freq kc mc*	MAX I_{CBO} μa ma*	@ V_{CE}	TYPE	BASE	USE	typ f_t $f_{\alpha b}$*
2N501	PH,SR	.06		.05	15	15	2.0	20	0.5	50	1.0	100	15	PG	22	SW	120
2N501/18	SY	.15		0.2	9.0	15	2.0	4.5	0.5	2.0	20*	100	15	PG	5	SW	90
2N501A	GI	.025		.05	15	15	2.0	4.5	0.5	2.0	20*	25	15	PG	22	SW	
2N501A	PH,SR	.06		.05	15	15	2.0	4.5	0.5	2.0	20*	25	15	PG	22	SW	150
2N502	GI,PH,SR	.06		.05	20	20	0.5	5.5	10	2.0	40*	100	20	PG	5	SW	280
2N502A	GI,PH,SR	.075		0.1	20	30	0.5	5.5	10	2.0	40*	100	30	PG	14	SW	260
2N502B	SR		0.1			30		50			DC	5.0	10	PG	14	SW	800
2N503	GI,PH	.025		.05	20	20	20		4.2	10	40*	100	20	PG	14		
2N504	PH,SR	.03		.05	20	35	1.0	40	12	1.0	1.0	100	35	PG	20	RF	
2N508	GE,TA	0.2		0.2	18	18	5.0	110	5.0	1.0	1.0	7.0	16	PG	4	AF	4.5*
2N508	SF	.14		0.1	16	20		112	5.0	1.0	1.0	16	16	PG	2	GP	
2N511	BN,TI		150	25	30	40	30	40	2.0	10*	DC	5*	40	PG	59	GP	.26
2N511A	BN,TI		150	25	30	60	30	40	2.0	10*	DC	5*	60	PG	59	GP	.26
2N511B	BN,TI		150	25	45	80	30	40	2.0	10*	DC	5*	80	PG	59	GP	.26
2N512	BN,TI		150	25	30	40	30	40	2.0	15*	DC	5*	40	PG	59	GP	.28
2N512A	BN,TI		150	25	40	60	30	40	2.0	15*	DC	5*	60	PG	59	GP	.28
2N512B	BN,TI		150	25	45	80	30	40	2.0	15*	DC	5*	80	PG	59	GP	.28
2N513	BN,TI		150	25	30	40	30	40	2.0	20*	DC	5*	40	PG	59	GP	0.3
2N513A	BN,TI		150	25	40	60	30	40	2.0	20*	DC	5*	60	PG	59	GP	0.3
2N513B	BN,TI		150	25	45	80	30	40	2.0	20*	DC	5*	80	PG	59	GP	0.3
2N514	BN,TI		150	25	30	40	30	40	2.0	25*	DC	5*	40	PG	59	GP	.43
2N514A	BN,TI		150	25	40	60	30	40	2.0	25*	DC	5*	60	PG	59	GP	.43
2N514B	BN,TI		150	25	45	80	30	40	2.0	25*	DC	5*	80	PG	59	GP	.43
2N519	KF	0.2		0.2	15	15	10	25	4.5	1.0	1.0	2.0	5.0	PG	2	RF	1.5*
2N519	SY	0.1		0.1	25	25	15	35	0.3	50	DC	2.5	1.5	PG	2	SW	6.0
2N519A	GT,TA	.15			18	20	10	25	5.0	1.0	1.0	2.0	5.0	PG	2	GP	
2N520	KF	0.2		0.2	12	15	10	40	4.5	1.0	1.0	2.0	5.0	PG	2	RF	5.0*
2N520	SY	.15		0.2	12	15	10	40	4.5	1.0	1.0	25	15	PG	2	SW	3.0
2N520A	GT,TA	.15			15	20	10	100	5.0	1.0	1.0	2.0	5.0	PG	2	GP	7.0*
2N521	KF	0.2		0.2	10	15	10	70	4.5	1.0	1.0	2.0	5.0	PG	2	RF	11*
2N521A	GT,TA	.15			12	20	10	150	5.0	1.0	1.0	2.0	5.0	PG	2	GP	
2N522	KF	0.2		0.2	8.0	15	10	120	4.5	1.0	1.0	2.0	5.0	PG	2	RF	18*
2N522A	GT,TA	.15			10	20	10	200	5.0	1.0	1.0	2.0	5.0	PG	2	GP	15
2N523	KF	0.2		0.2	6.0	15	10	200	4.5	1.0	1.0	2.0	5.0	PG	2	RF	25*
2N523A	GI,GT	.15			6.0	15	10	300	5.0	1.0	1.0	2.0	5.0	PG	5	GP	55*
2N524	CG,GE,MO, SF,SY,TA, TI	.225	.55	0.5	30	45	15	25	5.0	1.0	1.0	10	30	PG	4	AF	1.0
2N524A	MO	.225	.55	0.5	30	45	15	28	5.0	1.0	1.0	10	30	PG	4	GP	0.8
2N525	CG,GE,MO, SF,SY,TA, TI,TS	.225	.55	0.5	30	45	15	43	5.0	1.0	1.0	10	30	PG	2	AF	1.5
2N525A	MO	.225	.55	0.5	30	45	15	45	5.0	1.0	1.0	10	30	PG	4	GP	1.0
2N526	CG,GE,MO, SF,SY,TA, TI,TS	.225	.55	0.5	30	45	15	60	5.0	1.0	1.0	10	40	PG	2	AF	2.0
2N526A	MO	.225	.55	0.5	30	45	15	60	5.0	1.0	1.0	10	30	PG	4	GP	1.3
2N526 JAN	MO,TS	.225	.55	0.4	30	45	15	66	5.0	1.0	1.0	10	40	PG	2	RF	2.0
2N527	CG,GE,MO, SF,SY,TA, TI,TS	.225	.55	0.5	30	45	15	81	5.0	1.0	1.0	10	30	PG	4	AF	1.5
2N527A	MO	.225	.55	0.5	30	45	15	90	5.0	1.0	1.0	10	30	PG	4	GP	1.5
2N528	WE	1.0	2.5	1.0	40	40	40	40	1.0	500	DC	50	40	PG	17	SW	8.0
2N534	PH	.05		.025	50			110				15	50	PG	20		
2N535	PH	.05		.02	20	20	20	100	5.0	1.0		10	12	PG	19	RF	
2N535A	PH	.05		.02	20			110				10	12	PG	20		
2N535B	PH	.05		.02	20			110				10	12	PG	20		
2N536	PH	.05		.03	20			110				10	12	PG	20	SW	
2N537 USA	WE	.25		0.1		30	1.0	15	10	10	100*	3*	20	PG	5	RF	600
2N538	KF		13	3.0	60	80	28	30	2.0	2*	DC	2*	80	PG	50	GP	0.5
2N538	MH		13	3.5	60	80	28	30	2.0	2*	DC	2*	80	PG	51	GP	0.4
2N538A	GT	.15			15	30	20	30	20	2*	DC	5.0	5.0	PG	2	GP	0.4
2N538A	KF	.15		3.0	60	80	28	30	20	2*	DC	2*	80	PG	50	GP	0.5
2N538A	MH	.15	13	3.5	60	80	28	30	20	2*	DC	2*	80	PG	51	GP	0.4
2N539	KF		10	3.0	55	80	28	43	2.0	2*	DC	2*	80	PG	50	GP	0.5
2N539	MH		10	3.5	55	80	28	43	2.0	2*	DC	2*	80	PG	51	GP	0.4
2N539A	KF		10	3.0	55	80	28	43	2.0	2*	DC	2*	80	PG	50	GP	0.5
2N539A	MH		10	3.5	55	80	28	43	2.0	2*	DC	2*	80	PG	51	GP	0.4
2N539AM JAN	MH		SAME	AS 2N539A		BY	MH										
2N539M JAN	MH		SAME	AS 2N539		BY	MH										
2N540	KF		10	3.0	55	80	28	64	2.0	2*	DC	2*	80	PG	50	GP	0.5
2N540	MH		10	3.5	55	80	28	64	2.0	2*	DC	2*	80	PG	51	GP	0.4
2N540A	KF		10	3.0	55	80	28	64	2.0	2*	DC	2*	80	PG	50	GP	0.5
2N540A	MH		10	3.5	55	80	28	64	2.0	2*	DC	2*	80	PG	51	GP	0.4
2N541	GE,NS,TE	0.2		.025	15	15	2.0	130	6.0	1.0	1.0	0.5	15	NS	2	GP	39

TRANSISTOR obsolete*	MFG	MAXIMUM P_C (watts) T_A	MAXIMUM P_C (watts) T_C	MAXIMUM I_C amps	MAXIMUM V_{CE}	MAXIMUM V_{CB}	MAXIMUM V_{EB}	GAIN typ h_{fe}	GAIN V_{CE}	GAIN I_C ma amp*	GAIN freq kc mc*	MAX I_{CBO} μa ma*	@ V_{CE}	TYPE	BASE	USE	typ f_t $f_{\alpha b}$*
2N542	GE,NS,TE	0.2		.025	30	30	2.0	130	6.0	1.0	1.0	0.5	30	NS	2	GP	39
2N543	GE,NS,TE	0.2		.025	45	45	2.0	130	6.0	1.0	1.0	0.5	45	NS	2	GP	39
2N543A	TE	0.2		.025	45	45	2.0	140	6.0	1.0	1.0	0.5	45	NS	2	RF	
2N544	RC	.08		.01		18								PG	37	RF	
2N544/33	SY	.08		.01		24	1.0	175	12	1.0	1.0	50	24	PG	7	RF	1.5
2N545	TE	0.6	5.0	0.5	60	60	6.0	8.0	20	100	1*	15	60	NS	5	SW	
2N546	TE	0.6	5.0	1.0	30	30	6.0	8.0	20	100	1*	15	30	NS	5	SW	
2N547	TE	0.6	5.0	0.4	60	60	6.0	4.0	20	100	1*	15	60	NS	2	GP	
2N548	TE	0.6	5.0	1.0	30	30	6.0	4.0	20	100	1*	15	30	NS	2	GP	
2N549	TE	0.6	5.0	0.5	60	60	6.0	4.0	20	100	1*	15	60	NS	2	GP	
2N550	TE	0.6	5.0	0.5	30	30	6.0	4.0	20	100	1*	15	30	NS	2	GP	
2N551	TE	0.6	3.0	0.2	60	60	6.0	3.0	20	50	1*	15	60	NS	5	GP	
2N552	TE	0.6	3.0	0.2	30	30	6.0	3.0	20	50	1*	15	30	NS	5	GP	
2N553	BN		35	4.0	40	80	40	60	2.0	500	DC	2*	60	PG	72	GP	
2N553	DR		35	4.0	40	60	40	60	2.0	500	DC	50	2.0	PG	72	GP	
2N554	DR	110		5.0	30	15	30	45		1*	DC	10*	15	PG	72	GP	
2N554	MO		65	3.0	16	15	15	55	2.0	500	1.0	10*	15	PG	72	AF	0.5
2N555	MO		40	3.0	30	30	15	55	2.0	0.5	1.0	20*	30	PG	72	GP	0.5
2N556	SY	0.1		0.2	15	25	10	60	0.2	1.0	DC	10	25	NG	2	SW	3.5
2N557	SY	0.1		0.2	15	25	10	40	0.2	1.0	DC	10	25	NG	2	SW	6.5
2N558	SY	0.1		0.2	12	15	15	80	0.2	1.0	DC	10	15	NG	2	SW	3.5
2N559 USA	WE	.15	0.3	.05		15	5.0	50	0.5	10	DC	3.0	5.0	PG	5	SW	400
2N560 JAN	WE	0.5		0.1	45	60	8.0	40	5.0	100	DC	0.1	20	NS	5	SW	120
2N560 JAN	NS	0.5					8.0	50	0.5	10	DC			NS	2	GP	0.1
2N561	RC		50	10		80								PG	72	SW	
2N574	MH		137	10	55	60	28					7*	60	PG	49	GP	0.1
2N574A	MH		137	10	60	80	28					20*	80	PG	49	GP	0.1
2N574 USA	MH	SAME AS 2N574 BY MH															
2N575	MH		137	25	50	60	28					7*	60	PG	49	GP	.15
2N575 USA	MH	SAME AS 2N575 BY MH															
2N575A	MH		137	25	55	80	28					20*	80	PG	49	GP	.15
2N576	SY	0.2		0.4	15	20	15	80	1.0	20	DC	10	25	NG	4	SW	6.0
2N576A	SY	0.2		0.4	30	40	15	80	1.0	30	DC	40	40	NG	4	SW	8.0
2N578	RC,TS	.12		0.4	14	20	12	25	0.3	400		5.0	12	PG	2	RF	
2N579	RC,TS	.12		0.4	14	20	12	35	0.3	400		5.0	12	PG	2	RF	
2N580	GI,RC,TS	.12		0.4	14	20	12	50	0.3	100	DC	5.0	12	PG	2	RF	20*
2N581	RC,TA,TS	.15		0.1	14	18	10	30	0.3	20	DC	5.0	18	PG	22	SW	
2N582	SY	.12		0.1	15	25	12	60	0.2	24	DC	5.0	12	PG	2	SW	13
2N582	RC,TA,TS	.15		0.1	14	25	12	60	0.2	24	DC	5.0	12	PG	22	RF	18
2N583	RC	.12		0.1		18	10					3.0	12	PG	22	SW	
2N584	RC	.12		0.1		25	12					5.0	12	PG	22	SW	
2N585	RC,SY	.12		0.2	15	25	20	35	0.2	20	DC	8.0	12	NG	2	GP	3.0
2N586	RC	.25		.25	35	45	12	55	0.5	250	DC	8.0	45	PG	32	GP	
2N587	SY	0.2		0.2	30	40	40	40	.35	200	DC	10		NG	4	SW	3.0
2N588	GI,PH	.03		.05	20	15	0.5					15	15	PG	14	RF	
2N591	RC	.05	0.1	.02	32			70	12	2.0	1.0	7.0	10	PG	22	AF	0.7*
2N591/5	SY	.055		0.1	32			70	6.0	1.0	1.0	6.0	10	PG	2	AF	.01
2N592	GT	.15				20		25	5.0	1.0	1.0	5.0	5.0	PG	14	SW	
2N593	GT	.15				35		35	5.0	1.0	1.0	5.0	5.0	PG	14	SW	
2N594	GT,TI	.15	0.3	0.3	20	20	20	40	5.0	1.0	1.0	5.0	5.0	NG	14	SW	5.0
2N595	GT,TI	.15	0.3	0.3	15	20	20	45	5.0	1.0	1.0	5.0	5.0	NG	14	SW	8.0
2N596	GT,TI	.15	0.3	0.3	10	20	20	75	5.0	1.0	1.0	5.0	5.0	NG	14	SW	9.0
2N597	PH	.25		0.4	100			40	1.0	100		25	45	PG	5	SW	
2N598	PH	.25		0.4	100			50	1.0	100		25	30	PG	5	SW	
2N599	PH	.25		0.4	100			70	1.0	100		25	30	PG	5	SW	
2N600	PH	.75		0.4	100			50	1.0	100		25	30	PG	5	SW	
2N601	PH	.75		0.4	100			70	1.0	100		25	30	PG	5	SW	
2N602	GT,SY	.12			20	20	1.0	5.0	5.0	5.0	5*	25	30	PG	14	SW	20
2N603	GT,SY	.12			20	30	1.0	8.0	5.0	5.0	5*	20	30	PG	14	GP	50
2N604	GI,GT,SY	.12			20	30	2.0	20	5.0	50	10*	20	30	PG	14	SW	70
2N605	GT	.12			15	15		40	5.0	1.0	1.0	10	12	PG	14	SW	
2N606	GT	.12			15	15		60	5.0	1.0	1.0	10	12	PG	14	SW	
2N607	GT	.12			15	15		80	5.0	1.0	1.0	10	12	PG	14	SW	
2N608	GT	.12			15	15		120	5.0	1.0	1.0	10	12	PG	14	SW	
2N611	GE	2.0	15		100	120	10	25	30	30	1.0	50	120	PG	75	GP	20*
2N618	BN		90	3.0		80	12	35	4.0	3*	DC	3*	60	PG	72	GP	
2N618	MO		90	3.0	60	80	40	90	4.0	1*	DC	3*	60	PG	72	AF	0.8
2N619	RA	.337		0.1	40			14				.005	20	NS	14	GP	
2N620	RA	.337		0.1	30			25				.005	20	NS	14	GP	
2N621	RA	.337		0.1	20			50				.005	20	NS	14	GP	
2N622	RA	.337		0.1	20			20				.005	20	NS	14	GP	
2N624	SY	0.1			15	30		35	10	2.0	1.0	10	5.0	PG	7	RF	10
2N626 JAN	SY	.225		0.4		30	15	65	5.0	1.0	.27	10	30	PS	4	SW	3.0*
2N627	MO		90	10	30	40	20	60	12	500	1.0	200	2.0	PG	72	GP	0.6
2N628	MO		90	10	45	60	30	60	12	500	1.0	200	2.0	PG	72	GP	0.6

TRANSISTOR obsolete*	MFG	MAXIMUM						GAIN				MAX	@	TYPE	BASE	USE	typ
		P_C (watts)		I_C amps	V_{CE}	V_{CB}	V_{EB}	typ h_{ie}	V_{CE}	I_C ma amp*	freq kc mc*	I_{CBO} μa ma*	V_{CE}				f_t $f_{\alpha b}$*
		T_A	T_C														
2N629	MO		90	10	60	80	40	60	12	500	1.0	200	2.0	PG	72	GP	0.6
2N630	MO		90	10	75	100	50	60	12	500	1.0	200	2.0	PG	72	GP	0.6
2N631	RA	0.4		0.5	22			150		10	1.0	25	20	PG	14	AF	
2N632	RA	0.4		0.5	22			100		10	1.0	25	20	PG	14	AF	
2N633	RA	0.4		0.5	22			60		10	1.0	25	20	PG	14	AF	
2N634	GE	.15		0.3	20	20	15	30	.75	200	DC	5.0	5.0	NG	2	SW	3.0
2N634A	GE,TA	.15		0.3	12	25	25	55	1.0	10	DC	6.0	25	NG	4	GP	3.0
2N635	GE	.15		0.3	20	20	15	45	.75	200	DC	5.0	5.0	NG	2	SW	7.0
2N635A	GE,TA	.15		0.3	12	25	25	100	1.0	10	DC	6.0	25	NG	4	GP	7.0
2N636	GE	.15		0.3	15	20	15	60	.75	200	DC	5.0	5.0	NG	2	SW	11
2N636A	GE,SY,TA	.15		0.3	12	25	25	190	1.0	10	DC	6.0	25	NG	4	GP	11
2N640	RC	.08		.01		32						5.0	12	PG	37	RF	
2N641	RC	.08		.01		34						7.0	12	PG	37	RF	
2N642	RC	.08		.01		34						7.0	12	PG	37	RF	
2N643	GI,RC,SY	.12		0.1	22	30	2.0	30	7.0	5.0	1.0	10	7.0	PG	14	RF	30
2N644	RC	.12		0.1		30	2.0	30	7.0	5.0	DC	10	7.0	PG	14	SW	50
2N644	SY	.12		0.1	29	30	1.0	3.0	7.0	5.0	40*	10	7.0	PG	7	SW	60
2N645	RC	.12		0.1		30	2.0	30	7.0	5.0	DC	10	7.0	PG	14	SW	80
2N645	SY	.12		0.1	29	30	1.0	3.0	7.0	5.0	60*	10	7.0	PG	7	SW	85
2N647	RC	0.1		.05	25	25	12	70	1.0	50	DC	14	25	NG	22	AF	
2N649	RC	0.1		.05	18	20	2.5	65	1.0	50	DC	14	12	NG	22	AF	
2N650	BN	0.4		0.5	30	45	30	45	6.0	1.0	1.0	50	45	PG	2	AF	
2N650	MO,SY,TA	0.2		0.5	30	45	30	49	6.0	1.0	1.0	10	30	PG	2	AF	.15
2N650 USN	MO	0.2		0.5	30	45	30	40	6.0	1.0	1.0	10	30	PG	14	GP	1.5*
2N650A	BN,MO,TI	0.2	0.5	0.5	30	45	30	55	6.0	1.0	1.0	50	45	PG	2	AF	1.5
2N651	BN	0.4		0.5	30	45	30	80	6.0	1.0	1.0	50	45	PG	2	AF	1.5
2N651	MO,SY,TA	0.2		0.5	30	45	30	80	6.0	1.0	1.0	10	30	PG	2	AF	1.5
2N651A	BN,MO,TI	0.2	0.5	0.5	30	45	30	90	6.0	1.0	1.0	50	45	PG	2	AF	1.5
2N651 USN	MO	0.2		0.5	30	45	30	75	6.0	1.0	1.0	10	30	PG	14	GP	2.0*
2N652	BN	0.4		0.5	30	45	30	600	6.0	1.0	1.0	50	45	PG	2	AF	
2N652	MO,SY,TA	0.2		0.5	30	45	30	130	6.0	1.0	1.0	10	30	PG	2	AF	1.0
2N652	BN,MO,TI	0.2	0.5	0.5	30	45	30	150	6.0	1.0	1.0	50	45	PG	2	AF	
2N652 USN	MO	0.2		0.5	30	45	30	160	6.0	1.0	1.0	10	30	PG	14	GP	2.5*
2N653	KF	0.2		.25	16	30	25	50	6.0	1.0	1.0	15	25	PG	2	RF	1.5*
2N653	MO,TA	0.2		.25	25	30	25	40	6.0	1.0	1.0	15	25	PG	14	GP	1.5*
2N653	SY	0.2		0.5	20	30	20	49	6.0	1.0	1.0	50	30	PG	2	AF	.75
2N654	MO,TA	0.2		.25	25	30	25	75	6.0	1.0	1.0	15	25	PG	14	GP	2.0*
2N655	MO,TA	0.2		.25	25	30	25	160	6.0	1.0	1.0	15	25	PG	14	GP	2.5*
2N656	AP,FS,NS, PS,RH,TI	0.8	4.0	0.4	60	60	8.0	75	10	200	DC	10	40	NS	2	GP	60
2N656	RC	0.8	4.0	0.4	60	60	8.0	60	10	200	DC	10	10	NS	2	SW	
2N656	TE	0.6	4.0	0.4	60	60	8.0	4.0	20	100	1*	10	30	NS	4	GP	
2N656A	GE	0.8	4.0		60	60	8.0	60	10	200	DC	10	30	NS	5	GP	
2N657	AP,FS,GE, NS,PS,RH, TI	0.8	4.0	0.4	100	100	8.0	75	10	200	DC	10	40	NS	2	GP	60
2N657	TE	0.6	4.0	0.4	100	100	8.0	4.0	20	100	1*	10	30	NS	4	GP	
2N657A	GE	0.8	4.0		100	100	8.0	60	10	200	DC	10	30	NS	5	GP	
2N658	KF	0.2		1.0	14	25	12	40	.35	10	DC	25	25	PG	2	SW	5.0*
2N658	RA	.175	.335	1.0	24		12	50	0.5	10	DC	2.5	12	PG	14	GP	
2N658	TA,TI	.171	.335	1.0	16	25	12	55	6.0	1.0	1.0	25	25	PG	2	SW	9.0*
2N659	KF	0.2		1.0	9.0	25	12	55	.35	10	DC	25	25	PG	2	SW	10*
2N659	RA	.175		1.0	20			70			DC	2.5	12	PG	14	GP	
2N659	TA,TI	.171	.333	1.0	14	25	12	75	6.0	1.0	1.0	25	25	PG	2	SW	10*
2N660	KF	0.2		1.0	11	25	12	65	.35	10	DC	25	25	PG	2	SW	15*
2N660	RA	.175		1.0	16			90				2.5	12	PG	14	GP	
2N660	TA,TI	.171	.333	1.0	11	25	12	110	6.0	1.0	1.0	25	25	PG	2	SW	15*
2N661	KF	0.2		1.0	9.0	25	12	75	.35	10	DC	25	25	PG	2	SW	20*
2N661	RA	.175		1.0	16			120				2.5	12	PG	14	GP	
2N661	TA,TI	.171	.333	1.0	9.0	25	12	160	6.0	1.0	1.0	25	25	PG	2	SW	22*
2N662	KF	0.2		1.0	11	25	12	50	.35	10	DC	25	25	PG	2	SW	8.0*
2N662	RA	.175		1.0	16			60				2.5	12	PG	14	GP	
2N662	TA,TI	.171	.333	1.0	11	25	12	65	6.0	1.0	1.0	25	25	PG	2	SW	10*
2N663	DR			4.0	25	50	20	50		500	DC			PG	72	SW	
2N665	BN,DR		35	5.0	40	80	40	60	2.0	500	DC	2*	60	PG	72	GP	
2N665 SIG.C	DR			5.0	40	80	40	60	2.0	500	DC	50	2.0	PG	72	GP	
2N669	DR,MO		90	3.0	30	40	10	90	10	500	1.0	3*	30	PG	72	AF	0.3
2N670	PH	0.3		2.0	40			40	1.5	1*		75	12	PG	3	SW	
2N671	PH	1.0		2.0	40			40	1.5	1*		75	12	PG	3	SW	
2N672	PH	0.3		2.0	25			20	0.2	400		75	12	PG	3	SW	
2N673	PH	1.0		2.0	2	5		20	0.2	400		75	12	PG	3	SW	
2N677	BN		90	15	20	50		40	2.0	10*	DC	2*	15	PG	72	GP	
2N677A	BN		90	15	30	60		40	2.0	10*	DC	2*	25	PG	72	GP	
2N677B	BN		90	15	60	90		40	2.0	10*	DC	2*	60	PG	72	GP	
2N677C	BN		90	15	70	100		40	2.0	10*	DC	2*	60	PG	72	GP	

TRANSISTOR obsolete*	MFG	MAXIMUM						GAIN				MAX	@	TYPE	BASE	USE	typ
		P_C (watts)		I_C amps	V_{CE}	V_{CB}	V_{EB}	typ h_{fe}	V_{CE}	I_C ma amp*	freq kc mc*	I_{CBO} μa ma*	V_{CE}				f_t, f_{ab}*
		T_A	T_C														
2N678	BN		90	15	20	50		75	2.0	10*	DC	2*	15	PG	72	GP	
2N678A	BN		90	15	30	60		75	2.0	10*	DC	2*	25	PG	72	GP	
2N678B	BN		90	15	60	90		75	2.0	10*	DC	2*	60	PG	72	GP	
2N678C	BN		90	15	70	100		75	2.0	10*	DC	2*	60	PG	72	GP	
2N679	SY,TA	.15			20	25	15	35	0.5	30	DC	25	25	NG	4	GP	2.0
2N695	MO	.075	.15	.05	15	15	3.5	40	0.3	10	DC	3.0	6.0	PG	7	SW	250
2N696	AI,NS	0.6	1.0	0.3	30	60	5.0	50	10	150	1.0	1.0	30	NS	5	SW	130
2N696	AP,CD,CG, FS,GE,GI, MH,PS,RC, RH,SF,TI	0.6	2.0	0.5	30	60	5.0	50	10	150	1.0	1.0	30	NS	2	RF	100
2N696	SY,TE	0.6	2.0	0.2	30	60	5.0	6.0	10	50	20*	1.0	30	NS	5	SW	150
2N697	AI,NS	0.6	1.0	0.4	30	60	5.0	90	10	150	1.0	1.0	30	NS	5	RF	130
2N697	AP,CD,CG, RS,GE,GI, RC,RH,SF, TI	0.6	2.0	0.5	30	60	5.0	90	10	150	1.0	1.0	30	NS	2	RF	100
2N697	MO	0.6	2.0		40	60	5.0	15	10	50	20*	1.0	30	NS	14	SW	300
2N697	SY,TE	0.6	2.0	0.2	30	60	5.0	5.0	10	50	20*	1.0	30	NS	5	RF	150
2N698	AI	0.8	1.7		60	120	7.0	35	5.0	1.0	1.0	2.0	60	NS	5	SW	130
2N698	AP,CG	0.6	2.0		60	120	5.0	40	10	150	1.0	2.0	60	NS	2	RF	90
2N698	CD,FS,GE, PS	0.8	3.0		60	120	7.0	50	10	50	1.0	.005	75	NS	2	SW	100
2N698	NS	0.6	3.0		80	120	5.0	35	5.0	1.0	1.0	2.0	60	NS	2	GP	
2N698	SF	0.8	3.0		80	120	7.0	35	5.0	1.0	1.0	.005	75	NS	2	RF	90
2N699	AI	0.6	1.0		60	120	5.0	70	5.0	1.0	1.0	2.0	60	NS	5	SW	130
2N699	AP,CD,CG, FS,GE,GI, MH,PS,RC, RH,SF,TI	0.6	2.0		60	120	5.0	100	10	150	1.0	2.0	60	NS	2	RF	120
2N699	NS	0.6	2.0		80	120	5.0	70	5.0	1.0	1.0	2.0	60	NS	2	GP	
2N699B	FS,PS	.87	5.0		80	120	7.0	2.5	10	50	20*	10	90	NS	2	SW	80
2N700	MO	.075		.05	20	25	0.2	10	6.0	2*	1.0	2.0	6.0	PG	7	SW	500
2N700A	MO	.075		.05	25	25	0.2	10	6.0	2*	1.0	2.0	6.0	PG	7	SW	500
2N700A SIG.C	MO	.075		.05	25	25	0.2	10	6.0	2*	1.0	2.0	6.0	PG	7	SW	500
2N702	TI	0.3	0.6	.05	25	25	5.0	40	5.0	10	DC	0.5	10	NS	5	SW	150
2N702 USA	NS	0.3			25		5.0	40	5.0	10	DC			NS	2	GP	0.1
2N703	SY,TI	0.3	0.6	.05	25	25	5.0	60	5.0	10	DC	0.5	10	NS	5	SW	150
2N703 USA	NS	0.3			25		5.0	80	5.0	10	DC			NS	2	GP	0.1
2N705	CG	.15		.15		15	3.5	50	0.3	10	DC	3.0	5.0	PG	2	SW	300
2N705	MO,RC,SY	.15	0.3	.05	15	15	3.5	3.0	1.0	10	100*	3.0	5.0	PG	2	SW	325
2N705	TI	.15	0.3	.05		15	3.5	45	0.3	10	DC	3.0	5.0	PG	5	SW	250
2N705 USN	MO,SY	.15	0.3	.05	15	15	3.5	40	0.3	10	DC	3.0	5.0	PG	2	SW	325
2N706	AP,CV,CG, FS,GE,GI, HL,HU,NS, PS,RC	0.3	1.0	.05	15	25	3.0	5.0	15	10	100*	0.5	15	NS	2	SW	400
2N706	AI,SY	0.3	1.0	0.2	15	25	3.0	40	0.3	10	DC	0.5	15	NS	5	SW	350
2N706	MO,SF	0.3	1.0	.05	20	25	3.0	35	1.0	10	DC	0.5	15	NS	2	SW	300
2N706A	AI,CV,GE, GI,HL,HU, NS,PS,RC, SF,SY,TI	0.3	1.0	.05	15	25	5.0	5.0	10	10	100*	10	25	NS	2	SW	350
2N706A	MO	0.3	1.0	.05	20	25	5.0	4.0	15	10*	100*	0.5	15	NS	2	SW	400
2N706B	CV,GI,HL, HU,PS,SY	0.3	1.0	.05	15	25	5.0	3.0	10	10	100*	10	25	NS	5	SW	350
2N706B	MO	0.3	1.0	.05	20	25	5.0	4.0	15	10*	100*	0.5	15	NS	2	SW	400
2N706C	SY	.36	1.2	0.2	15	40	5.0	4.0	10	10	100*	1.0	30	NS	5	SW	350
2N706M JAN	MO	0.3	1.0		15	25	5.0	65	1.0	10*	DC	0.1	15	NS	2	SW	
2N707	CV	0.3	0.5	.05	22	56	4.0	20	1.0	10	DC	0.5	15	NS	5	SW	
2N707	FS,HL,HU	0.3	1.0		15	56	4.0	15	1.0	10	DC	5.0	28	NS	2	RF	250
2N707	PS,GI,MO	0.3	1.0	0.1	28	56	4.0	20	1.0	10	DC	0.5	15	NS	5	SW	350
2N707A	MO	0.5	1.2	0.1	40	70	5.0	12	1.0	10	DC	1.0	30	NS	2	SW	350
2N708	AP,CV,FS, GI,HU,MO	.36	1.2	.05	16	40	5.0	5.0	10	10	100*	.025	20	NS	2	SW	450
2N708	PH,PS,AI, AC,GE,SF	.36	1.2	.05	15	40	5.0	65	1.0	10	1.0	0.5	20	NS	2	RF	300
2N708	SY	.36	1.2	0.2	15	40	5.0	5.0	10	10	100*	.025	20	NS	5	SW	350
2N708/46	SY	0.4			15	40	5.0	6.0	10	10	100*	.025	20	NS	5	SW	300
2N708/51	SY	0.3			15	40	5.0	5.0	10	10	100*	.025	20	NS	90	SW	500
2N709	FS,PH,SY	0.3	1.0		6.0	15	4.0	70	0.5	10	DC	.05	5.0	NS	2	SW	900
2N709	AM,RC	0.3	0.5		6.0	15	4.0	8.0	4.0	5.0	100*	.05	5.0	NS	2	SW	1000
2N709A	SY	0.3			6.0	15	4.0	60	0.5	10	DC	.05	5.0	NS	5	SW	1000
2N709/46	SY	0.3			6.0	15	4.0	70	0.5	10	DC	.05	5.0	NS	2	SW	1000
2N709A/46	SY	0.3			6.0	15	4.0	60	0.5	10	DC	.05	5.0	NS	2	SW	1500

TRANSISTOR obsolete*	MFG	MAXIMUM						GAIN				MAX	@	TYPE	BASE	USE	typ
		P_C (watts)		I_C amps	V_{CE}	V_{CB}	V_{EB}	typ h_{fe}	V_{CE}	I_C ma amp*	freq kc mc*	I_{CBO} μa ma*	V_{CE}				f_t f_{ab}*
		T_A	T_C														
2N709/51	SY	0.3	.75		6.0	15	4.0	70	0.5	10	DC	.05	5.0	NS	90	SW	1000
2N709A/51	SY	0.3	.75		6.0	15	4.0	60	0.5	10	DC	.05	5.0	NS	90	SW	1500
2N710	MO,TI	.15	0.3	.05	15	15	2.0	2.0	10	10	100*	3.0	5.0	PG	5	SW	325
2N710	RC,SY	.15	0.3	0.5		15	2.0	40	0.5	10	100*	3.0	5.0	PG	5	SW	
2N711	AP,MO,RC, SY,TI	.15	0.3	.05	12	12	1.0	40	0.5	10	DC	3.0	5.0	PG	5	SW	300
2N711A	CG	.15	0.3	.15		15	1.5	50	0.5	10	DC	3.0	5.0	PG	2	SW	300
2N711A	MO,TI	.15	0.3	0.1	7.0	15	1.5	70	0.5	10	DC	1.5	5.0	PG	2	SW	320
2N711B	MO,TI	.15	0.3	1.0	7.0	18	2.0	70	0.5	10	DC	1.5	10	PG	2	SW	320
2N716	TI	0.5	1.2			70	5.0					10	70	NS	5	RF	150
2N717	AP,CD,FS, GE,PS,TI	0.4	1.5		30	60	5.0	50	10	150	1.0	1.0	30	NS	2	GP	100
2N717	AM,NS	0.4	1.5		40	60	5.0	50	10	150	1.0	1.0	30	NS	2	GP	100
2N717A*	PS		1.8		40	75	7.0							NS	2	SW	100
2N718	AP,CD,FS, GE,MH,PS, TI	0.4	1.5		30	60	5.0	90	10	150	1.0	1.0	30	NS	2	SW	100
2N718	NS	0.4	1.5		40	60	5.0	90	10	150	1.0	1.0	80	NS	2	RF	100
2N718A	NS	0.5	3.0			75	7.0	65	5.0	1.0	1.0	.01	60	NS	5	SW	100
2N718A	AP,CD,FS, PS,RC	0.5	1.8		40	75	7.0	3.0	10	50	20*	.01	60	NS	2	RF	100
2N718A	GE,TI	0.5	1.8		32	75	7.0	95	10	5.0	1.0	.01	60	NS	5	RF	120
2N719	AP,CD,FS	0.4	1.5		60	120	5.0	2.0	10	50	20*	1.0	60	NS	2	RF	100
2N719	PS,GE,TI	0.4	1.5			120	5.0	40	10	5.0	1.0	2.0	60	NS	5	RF	80
2N719A	AM,AP,CD, FS,GE,PS, TI	0.5	1.8	1.0	60	120	7.0	2.0	10	50	20*	.01	75	NS	2	RF	100
2N720	AP,CD,FS, MH,PS	0.4	1.5		60	120	5.0	2.5	10	50	20*	1.0	60	NS	2	RF	150
2N720	GE,NS,TI	0.4	1.5		80	120	5.0	85	10	5.0	1.0	2.0	60	NS	5	RF	100
2N720A	AM	0.8	3.0		80	120	7.0	65	5.0	1.0	1.0	.01	90	NS	5	GP	100
2N721	FS,HU	0.4	1.5		35	50	5.0	32	5.0	1.0	1.0	100	50	PS	2	RF	70
2N721	TI	0.4	1.5			50	35	30	5.0	1.0	1.0	1.0	30	PS	2	GP	100
2N722	FS,HU,MO	0.4	1.5	0.6	35	50	5.0	57	5.0	1.0	1.0	1.0	30	PS	2	RF	100
2N722	TI	0.4	1.5			50	35	65	5.0	1.0	1.0	1.0	30	PS	2	GP	120
2N726	HU,TI	0.3	1.0	.05	20	25	5.0	3.0	10	10	100*	10	25	PS	2	SW	300
2N727	TI	0.3	1.0	.05	20	25	5.0	120	10	10	1.0	1.0	25	PS	5	SW	200
2N730	TI	0.5	1.5			60	5.0	4.0	10	50	20*	1.0	30	NS	5	SW	80
2N731	MH,TI	0.5	1.5		28	60	5.0	5.0	10	50	20*	1.0	30	NS	5	SW	100
2N735	NS,PS,TI	0.5	1.0	.05	60	80	5.0	70	5.0	5.0	1.0	1.0	40	NS	2	AF	100
2N735A	SP	0.5	1.8		80	80	6.0	55	5.0	5.0	1.0	.005	50	NS	2	RF	100
2N736	NS,PS,TI	0.5	1.0	.05	60	80	5.0	180	5.0	5.0	1.0	1.0	40	NS	2	AF	100
2N736A	TI	0.5		0.1	60	80	8.0	140	5.0	5.0	1.0	0.5	40	NS	5	GP	180
2N736B	SP	0.5	1.8		80	80	6.0	130	5.0	5.0	1.0	.005	50	NS	2	RF	100
2N738	AM	0.6	1.2		80	125	5.0	35	5.0	5.0	1.0	1.0	40	NS	5	GP	
2N738	TI	0.5	1.0	.05	80	80	5.0	35	5.0	5.0	1.0	1.0	40	NS	5	GP	120
2N739	AM	0.6	1.2		80	125	5.0	70	5.0	5.0	1.0	1.0	40	NS	5	GP	
2N739	TI	0.5	1.0	.05	80	80	5.0	70	5.0	5.0	1.0	1.0	40	NS	5	GP	140
2N739A	SP	0.5	1.8		80	125	8.0	55	5.0	5.0	1.0	.005	80	NS	2	RF	100
2N740	AM	0.6	1.2		80	125	5.0	140	5.0	5.0	1.0	1.0	40	NS	5	GP	
2N740	TI	0.5	1.0	.05	80	80	5.0	140	5.0	5.0	1.0	1.0	40	NS	5	GP	150
2N740A	SP	0.5	1.8		80	125	8.0	30	5.0	5.0	1.0	.005	80	NS	2	RF	100
2N741	MO,SY	.15	0.3	0.1	15	15	1.0	1.0	6.0	5.0	1.0	3.0	6.0	PG	2	SW	360
2N741A	SY	.15	0.3	0.1	20	20	1.0	40	6.0	5.0	1.0	3.0	6.0	PG	5	SW	360
2N742	NS	0.5		0.1	60		8.0	50	0.5	10	DC			NS	2	GP	0.1
2N742A	NS	0.5		0.1	60		8.0	50	0.5	10	DC			NS	2	GP	0.1
2N743	CV,FS,NS, SY,TI	0.3	1.0	0.2	12	20	5.0	5.0	10	10	100*	1.0	20	NS	5	SW	400
2N744	CV,FS,MO, NS,SY,TI	0.3	1.0	0.2	12	20	5.0	5.0	10	10	100*	1.0	20	NS	2	SW	450
2N753	AI,FS,HL, HU,NS,PS, SY,TI	0.3	1.0	.05	15	25	5.0	5.0	10	10	100*	10	25	NS	2	SW	350
2N753	GE,SF	0.3	1.0		15	25	5.0	75	1.0	10	1.0	0.5	15	NS	2	SW	350
2N753	MO	0.3	1.0	0.1	20	25	5.0	4.0	15	10	100*	10	25	NS	2	SW	400
2N754	TE	0.3	0.5	0.1	60	60	3.0	40	10	1.0	1.0	1.0	60	NS	5	RF	
2N755	TE	0.3	0.5	0.1	80	100	3.0	40	10	1.0	1.0	1.0	100	NS	5	RF	
2N756	NS	0.5			45	45	6.0	17		100		0.2		NS	2	GP	
2N756A	NS	0.5			60	60	6.0	17		100		0.1		NS	2	GP	
2N757	NS	0.5			45	45	6.0	29		100		0.2		NS	2	GP	
2N757A USA	NS	0.5			60	60	6.0	29		100		0.1		NS	2	GP	
2N758	NS	0.5			45	45	8.0	29		100		0.2		NS	2	GP	
2N758A	NS	0.5			60	60	8.0	54		100		0.1		NS	2	GP	
2N759	AI,GE,NS, SF	0.5			45	45	8.0	75	1.0	1.0	1.0	0.2	30	NS	2	RF	300

2N759A USA

2N910

TRANSISTOR obsolete*	MFG	MAXIMUM						GAIN				MAX	@	TYPE	BASE	USE	typ
		P_C (watts)		I_C	V_{CE}	V_{CB}	V_{EB}	typ	V_{CE}	I_C	freq	I_{CBO}	V_{CE}				f_t
		T_A	T_C	amps				h_{fe}		ma amp*	kc mc*	μa ma*					f_{ab}*
2N759A USA	NS	0.5			60	60	8.0	63		100	1.0	0.1	45	NS	2	GP	
2N759B	SP	0.5	1.8		60	60	8.0	60	5.0	1.0	1.0	.005	45	NS	2	RF	100
2N760	AI,AM,GE, NS,SF,TI	0.5	1.5	0.1	45	45	8.0	200	5.0	1.0	1.0	0.2	30	NS	5	RF	300
2N760A	AM,TI	0.5	1.5	0.1	60	60	8.0	200	5.0	1.0	1.0	0.1	30	NS	5	GP	
2N760A USA	NS	0.5			60	60	8.0	304		100		0.1		NS	2	GP	
2N760B	SP	0.5	1.8		60	60	8.0	200	5.0	1.0	1.0	.005	45	NS	2	RF	100
2N761	NS	0.5			30	50	6.0	36		100		0.2		NS	2	GP	
2N762	NS	0.5			30	50	6.0	64		100		0.2		NS	2	GP	
2N768	PH,SR	.035		0.1	7.0	12	1.5	4.2	1.0	1.0	40*	3.0	5.0	PG	2	SW	250
2N769	PH,SR	.035		0.1	7.0	12	2.0	25	0.5	20	DC	3.0	5.0	PG	2	SW	250
2N779A	PH,SR	.06		0.1	12	15	10	50	0.5	10	DC	3.0	5.0	PG	2	SW	500
2N780	TI	0.3	1.0	.05	45	45	5.0	2.8	5.0	0.5	30*	.01	40	NS	5	RF	90
2N781	SY	.15	0.3	0.2	15	1.5	2.5	40	.22	10	DC	3.0	5.0	PG	5	SW	
2N782	SY	.15	0.3	0.2	12	12	10	35	.25	10	DC	3.0	5.0	PG	5	SW	
2N783	FS,SY	0.3	1.0	0.2	20	40	5.0	4.0	10	10	100*	.25	25	NS	5	SW	350
2N784	SY	0.3	1.0	0.2	15	30	5.0	40	10	1.0	DC	.25	25	NS	5	SW	350
2N784/51	SY	0.3	1.0	0.2	15	40	5.0	80	1.0	10	DC	.25	25	NS	90	SW	550
2N784A	SY	.36	1.2	0.2	15	40	5.0	90	10	1.0	DC	.25	25	NS	5	SW	400
2N784A/46	SY	.35	1.2	0.2	15	40	5.0	80	1.0	10	DC	.25	25	NS	5	SW	550
2N794	RC,SR	.15		0.1	12	13	1.0	45	0.3	10	DC	3.0	6.0	PG	2	GP	40
2N795	RC,SR	.15		0.1	12	13	4.0	45	0.3	10	DC	3.0	6.0	PG	2	GP	50
2N796	RC,SR	.15		0.1	12	13	4.0	65	0.3	10	DC	3.0	6.0	PG	2	GP	65
2N797	TI	.15	0.3	.15	7.0	20	4.0	10	5.0	30	100*	1.0	10	NG	5	SW	1000
2N827	MO	.15		0.1	15	20	4.0	3.5	1.0	10	100*	5.0	15	PG	2	SW	350
2N828	MO,RC,SY	.15	0.3	0.2	15	15	2.5	5.0	1.0	10	100*	3.0	6.0	PG	2	SW	450
2N828	MO	.15	.30	0.2	15	15	2.5	4.0	1.0	10	100*	3.0	6.0	PG	2	SW	400
2N829	MO	.15	.30	0.2	15	15	2.5	4.0	1.0	10	100*	3.0	6.0	PG	2	SW	400
2N834	AI,CV,FS, GE,NS,PH, PS,RC SF,SY	0.3	1.0	0.2	20	40	5.0	5.0	15	10	100*	0.5	20	NS	5	SW	500
2N834	MO	0.3	0.5	0.2	30	40	5.0	5.0	20	10	100*	0.5	20	NS	2	SW	500
2N835	CV,FS,NS	0.3	1.0	0.2	20	25	3.0	5.0	15	10	100*	0.5	20	NS	5	SW	500
2N835	MO	0.3	0.5	0.2	20	25	3.0	4.5	15	10	100*	0.5	20	NS	2	SW	450
2N838	MO	.15		0.1	30	30	15	4.5	1.0	10	100*	10	15	PG	2	SW	450
2N839	CD,TE	0.3	0.5	.05	45	45	2.0	32	5.0	1.0	1.0	1.0	45	NS	5	GP	
2N840	CD,TE	0.3	0.5	.05	45	45	2.0	65	5.0	1.0	1.0	1.0	45	NS	5	GP	
2N841	CD	0.3	0.5	.05	45	45	2.0	215	5.0	1.0	1.0	1.0	45	NS	5	GP	
2N842	TE	0.3	0.5	.05	45	45	2.0	40	5.0	1.0	1.0	1.0	45	NS	5	GP	
2N843	TE	0.3	0.5	.05	45	45	2.0	80	5.0	1.0	1.0	1.0	45	NS	5	GP	
2N844	TE	0.3	0.5	.05	60	60	3.0	80	10	1.0	1.0	1.0	60	NS	5	RF	
2N845	TE	0.3	0.5	0.1	80	100	3.0	80	10	1.0	1.0	1.0	100	NS	5	RF	
2N846A	PH,SR	.06		0.1	10	15	10	25	0.5	10	DC	3.0	5.0	PG	2	SW	450
2N849	TI	0.3	1.2	.05	15	25	5.0	3.0	10	10	100*	0.5	15	NS	91	SW	400
2N850	TI	0.3	1.2	.05	15	25	5.0	5.0	10	10	100*	0.5	15	NS	91	SW	400
2N851	TI	0.3	1.2	0.2	12	20	5.0	5.0	10	10	100*			NS	91	SW	600
2N852	TI	0.3	1.2	0.2	12	20	5.0	3.0	10	10	100*			NS	91	SW	600
2N858	CY	0.4		0.1	40	40	25	10*			DC	.001	10	PS	2	GP	10*
2N858	PH,SR	.15		.05	40	40	25	42	6.0	1.0	1.0	0.1	10	PS	2	GP	14
2N859	CY	0.4		0.1	40		25	25			DC	.001	10	PS	2	GP	10*
2N859	PH,SR	.15		.05	40	40	25	70	6.0	1.0	1.0	0.1	10	PS	2	GP	14
2N860	CY	0.4		0.1	25		25	10			DC	.001	10	PS	2	GP	15*
2N860	PH,SR	.15		.05	25	25	20	33	6.0	1.0	1.0	0.1	10	PS	2	GP	14
2N861	CY	0.4		0.1	25		20	25			DC	.001	10	PS	2	GP	15*
2N861	PH,SR	.15		.05	25	25	20	65	6.0	1.0	1.0	0.1	10	PS	2	GP	22
2N862	CY	0.4		0.1	15		10	12			DC	.001	10	PS	2	GP	20*
2N862	PH,SR	.15		.05	15	15	10	33	6.0	1.0	1.0	0.1	10	PS	2	GP	14
2N863	CY	0.4		0.1	15		10	25		1.0	DC	.001	10	PS	2	GP	22*
2N863	PH,SR	.15		.05	15	15	10	73	6.0	1.0	1.0	0.1	10	PS	2	GP	33
2N864	CY	0.4		0.1	6.0		6.0	20			DC	.001	6.0	PS	2	GP	35*
2N864	PH,SR	.15		.05	6.0	6.0	6.0	65	6.0	1.0	1.0	0.1	6.0	PS	2	GP	22
2N865	CY	0.4		0.1	16		10	45			DC	.001	10	PS	2	GP	52*
2N869	FS,HU,MO	.36	1.2		18	25	5.0	2.0	15	10	100*	.01	15	PS	2	SW	225
2N870	AM	0.8	3.0		60	100	7.0	65	5.0	1.0	1.0	.01	75	NS	5	RF	70
2N870	AP,CD,TI	0.5	1.8		60	100	7.0	100	10	150	1.0	.01	75	NS	2	RF	100
2N870	FS	0.5	1.8		60	100	7.0	80	100	150	DC	10	75	NS	2	RF	70
2N871	AM	0.8	3.0		60	100	7.0	65			1.0	.01	75	NS	5	GP	
2N871	AP,CD,TI	0.5	1.8		60	100	7.0	220	10	150	1.0	.01	75	NS	2	RF	120
2N871	FS	0.5	1.8		60	100	7.0	200	10	150	DC	10	75	NS	2	RF	90
2N907	AM	0.1			6.0	15	4.0					.05	5.0	NS	5	SW	900
2N909	CD,PS	0.4	1.5		20	60	5.0	2.5	10	50	20*	0.1	30	NS	2	SW	190
2N910	AM	0.8	3.0		60	100	7.0	140	5.0	1.0	1.0	.025	75	NS	5	GP	
2N910	AP,CD,FS, GE,PS,TI	0.5	1.8		60	100	7.0	140	10	10	1.0	.025	75	NS	2	RF	85

TRANSISTOR obsolete*	MFG	MAXIMUM P_C (watts) T_A	MAXIMUM P_C (watts) T_C	MAXIMUM I_C amps	MAXIMUM V_{CE}	MAXIMUM V_{CB}	MAXIMUM V_{EB}	GAIN typ h_{fe}	GAIN V_{CE}	GAIN I_C ma amp*	GAIN freq kc mc*	MAX I_{CBO} μa ma*	@ V_{CE}	TYPE	BASE	USE	typ f_t $f_{\alpha b}$*
2N911	AM	0.8	2.0		60	100	7.0	65	5.0	1.0	1.0	.025	75	NS	5	GP	
2N911	AP,CD,FS, GE,PS,TI	0.5	1.8		60	100	7.0	70	10	10	1.0	.025	75	NS	2	RF	70
2N912	AM	0.8	2.0		60	100	7.0	35	5.0	1.0	1.0	.025	75	NS	5	GP	
2N912	AP,CD,FS, GE,PS,TI	0.5	1.8		60	100	7.0	30	10	10	1.0	.025	75	NS	2	GP	50
2N914	AI,AP,FS, GE,MO,RC, SF,SY	.36	1.2		15	40	5.0	5.0	10	20	100*	.025	20	NS	2	SW	400
2N914	CV	.36	1.2		15	40	15	3.0	10	20	100*	.025	20	NS	5	SW	
2N914	SY	.36	1.2		15	40	20	120	1.0	1.0	DC	.025	20	NS	5	SW	500
2N914/46	SY	0.4	2.0		15	20	5.0	30	5.0	500	DC	.025	25	NS	2	SW	550
2N914/51	SY	0.3	1.0		15	40	5.0	30	5.0	500	DC	.025	20	NS	90	SW	550
2N915	AI,AP,FS	.36	1.2		50	70	5.0	120	5.0	10	1.0	.01	60	NS	2	SW	350
2N915	GE	.36	1.2		50	70	8.0	5.0	15	10	100*	.01	60	NS	5	GP	500
2N916	AI,AP,FS, GE,PS	.36	1.2		25	45	5.0	150	1.0	10	1.0	.01	30	NS	2	SW	600
2N917	FS,GE	0.2	0.3		15	30	3.0	40	1.0	3.0	DC	.001	15	NS	2	SW	800
2N918	GE,MO,TI	0.2	0.3	.05	15	30	3.0	9.0	10	4.0	100*	.01	15	NS	7	RF	600
2N919	CV,PS	.36	1.2	.22	15	25	5.0	2.0	10	10	100*	.02	15	NS	2	SW	400
2N920	CV,PS	.36	1.2		15	25	5.0	2.0	10	10	100*	.02	15	NS	2	SW	400
2N921	CV,PS	.36	1.2	0.2	20	50	5.0	2.0	10	10	100*	.02	15	NS	2	SW	400
2N922	CV,PS	.36	1.2	0.2	20	50	5.0	2.0	10	10	100*	.02	15	NS	2	SW	400
2N923	NS	.15		0.1	25	40	40	20			1.0	.025		NS	2	GP	
2N924	NS	.15		0.1	25	50	50	42			1.0	.025		NS	2	GP	
2N925	NS	.15		0.1	40	50	50	17			1.0	.025		NS	2	GP	
2N926	NS	.15		0.1	40	50	50	38			1.0	.025		NS	2	GP	
2N927	NS	.15		0.1	60	70	70	15			1.0	.025		NS	2	GP	
2N928	NS	.15		0.1	60	70	70	36			1.0	.025		NS	2	GP	
2N929	AM,FS,TE, TI	0.3	0.6	.03	45	45	5.0	170	5.0	1.0	1.0	.01	45	NS	5	RF	60
2N929	AP	0.3	0.6	.03	35	45	5.0	90	5.0	10	1.0	.01	45	NS	2	GP	30
2N929A	SP	0.5	1.8		45	60	6.0	190	5.0	1.0	1.0	.002	45	NS	2	RF	100
2N930	AM,FS,GE, TI	0.3	0.6	0.3	45	45	5.0	300	5.0	1.0	1.0	.01	45	NS	5	RF	60
2N930	AP	0.3	0.6	.03	35	45	5.0	240	5.0	10	1.0	.01	45	NS	2	GP	30
2N930A	SP	0.5	1.8		45	60	6.0	350	5.0	1.0	1.0	.002	45	NS	2	RF	100
2N935	CY,NS	0.4		0.1	40	50	20	15	5.0	3.0	1.0	0.1	30	PS	2	GP	0.2*
2N935	SP	.25		.05	40	50	20	14	5.0	3.0	1.0	0.1	30	PS	2	GP	0.2*
2N936	CY,NS	0.4		0.1	35	50	20	37			DC	0.1	30	PS	2	GP	0.3*
2N936	SP	.25		.05	35	50	20	28	5.0	3.0	1.0	0.1	30	PS	2	GP	0.3*
2N937	CY,NS	0.4		0.1	30	50	20	60	5.0	3.0	1.0	0.1	30	PS	2	GP	0.5*
2N937	SP	.25		.05	30	50	20	60	5.0	3.0	1.0	0.1	30	PS	2	GP	0.5*
2N938	CY	0.4		0.1	35	50	50	15	6.0	1.0	1.0	.025	35	PS	2	GP	1.0*
2N938	SP	.25		.05	30	40	40	15	6.0	1.0	1.0	.025	35	PS	2	GP	
2N939	CY	0.4		0.1	35	40	40	28	6.0	1.0	1.0	.025	35	PS	2	GP	2.0*
2N939	SP	.25		.05	35	50	50	30	6.0	1.0	1.0	.025	35	PS	2	GP	2.0*
2N940	CY	0.4		0.1	35	40	40	57	6.0	1.0	1.0	.025	35	PS	2	GP	2.0*
2N940	SP	.25		.05	35	40	40	60	6.0	1.0	1.0	.025	35	PS	2	GP	2.0*
2N941	CY	0.4		0.1	8.0		25	25			DC	.003	4.5	PS	2	GP	35*
2N941	SP	.25		.05	8.0	25	25	50	6.0	1.0	1.0	.05	4.5	PS	2	GP	35*
2N942	SP	.25		.05	8.0	25	25	50	6.0	1.0	1.0	.05	4.5	PS	2	GP	35*
2N943	CY	0.4		0.1	18	40	40							PS	2	GP	5.0*
2N943	SP	.25		.05	18	40	40							PS	2	GP	5.0*
2N944	CY	0.4		0.1	18	40	40							PS	2	GP	5.0*
2N944	SP	.25		.05	18	40	40							PS	2	GP	5.0*
2N945	CY	0.4		0.1	50	50	50							PS	2	GP	5.0*
2N945	SP	.25		.05	50	50	50							PS	2	GP	5.0*
2N946	CY	0.4		0.1	80	80	80							PS	2	GP	5.0*
2N946	SP	.25		.05	80	80	80							PS	2	GP	5.0*
2N947	FS	.36	1.2		15	20	3.0	60	5.0	10	DC	1.0	15	NS	2	SW	400
2N955	RC	.15		0.1	8.0	12	2.0	10	5.0	20	100*	5.0	5.0	NG	2	SW	
2N955A	RC	.15		.15	8.0	12	2.0	10	5.0	20	100*	5.0	5.0	NS	2	SW	
2N956	AM	0.5	3.0			75	7.0	125	5.0	1.0	1.0	.01	60	NS	5	SW	
2N956	AP,CD	0.5	1.8		30	60	7.0	230	10	150	1.0	.01	60	NS	2	RF	120
2N956	FS,TI	0.5	1.8			75	7.0	170	10	5*	1.0	.01	60	NS	2	SW	120
2N957	PS	.25	0.8		20	40	40	75	15	10	1*	.01	20	NS	2	SW	250
2N957	FS	.25	0.8		20	40	5.0	85	5.0	10	DC	5.0	20	NS	2	SW	400
2N960	MO,RC,SY, TI	.15	0.3	0.1	7.0	15	2.5	40	0.3	10	DC	3.0	6.0	PG	5	SW	500
2N961	MO	.15	0.3	0.1	12	12	2.0	50	0.3	10	DC	3.0	6.0	PG	2	SW	460
2N961	RC,SY,TI	.15	0.3	0.1	7.0	12	2.0	5.0	1.0	20	100*	3.0	6.0	PG	5	SW	500
2N962	MO	.15	0.3	0.1	12	12	1.0	40	0.3	10	DC	3.0	6.0	PG	2	SW	460
2N962	RC,SY,TI	.15	0.3	0.1	7.0	12	1.3	5.0	1.0	20	100*	3.0	6.0	PG	5	SW	500
2N963	MO	.15	0.3	0.1	7.0	12	1.3	20	0.3	10	DC	5.0	6.0	PG	2	SW	460

TRANSISTOR obsolete*	MFG	MAXIMUM P_C (watts) T_A	MAXIMUM P_C (watts) T_C	MAXIMUM I_C amps	MAXIMUM V_{CE}	MAXIMUM V_{CB}	MAXIMUM V_{EB}	GAIN typ h_{fe}	GAIN V_{CE}	GAIN I_C ma amp*	GAIN freq kc mc*	MAX I_{CBO} μa ma*	@ V_{CE}	TYPE	BASE	USE	typ f_t f_{ab}*
2N963	RC,SY,TI	.15	0.3	0.1	7.0	12	1.3	20	0.3	10	DC	5.0	6.0	PG	5	SW	400
2N964	MO	.15	0.3	0.1	15	15	2.5	70	0.3	10	DC	3.0	6.0	PG	2	SW	460
2N964	RC,SY,TI	.15	0.3	0.1	7.0	15	2.5	5.0	1.0	20	100*	3.0	6.0	PG	5	SW	500
2N964A	MO	.15	0.3	0.1	15	15	2.5	4.6	1.0	20	100*	3.0	6.0	PG	2	SW	460
2N965	MO	.15	0.3	0.1	12	12	2.0	70	0.3	10	DC	3.0	6.0	PG	2	SW	460
2N965	RC,SY,TI	.15	0.3	0.1	7.0	12	2.0	5.0	1.0	20	100*	3.0	6.0	PG	5	SW	500
2N966	MO	.15	0.3	0.1	12	12	1.0	70	0.3	10	DC	3.0	6.0	PG	2	SW	460
2N966	RC,SY,TI	.15	0.3	0.1	7.0	12	1.3	5.0	1.0	20	100*	3.0	6.0	PG	5	SW	500
2N967	MO	.15	0.3	0.1	7.0	12	1.3	40	0.3	10	DC	5.0	6.0	PG	2	SW	460
2N967	RC,SY,TI	.15	0.3	0.1	7.0	12	1.3	60	0.3	10	DC	5.0	6.0	PG	5	SW	400
2N968	MO	.15	0.3		15	15	2.5	35	0.5	10	DC	3.0	6.0	PG	2	SW	320
2N969	MO	.15	0.3		12	12	2.0	35	0.5	10	DC	3.0	6.0	PG	2	SW	320
2N970	MO	.15	0.3		12	12	1.3	35	0.5	10	DC	3.0	6.0	PG	2	SW	320
2N971	MO	.15	0.3		7.0	7.0	1.3	35	0.5	10	DC	10	6.0	PG	2	SW	320
2N972	MO	.15	0.3		15	15	2.5	75	0.5	10	DC	3.0	6.0	PG	2	SW	320
2N973	MO	.15	0.3		12	12	2.0	75	0.5	10	DC	3.0	6.0	PG	2	SW	320
2N974	MO	.15	0.3		12	12	1.3	75	0.5	10	DC	3.0	6.0	PG	2	SW	320
2N975	MO	.15	0.3		7.0	7.0	1.3	75	0.5	10	DC	10	6.0	PG	2	SW	320
2N976	PH	0.1		0.1	10	15		25	0.5	40		3.0	5.0	PG	2	SW	
2N978	FS	.33	1.25		20	30	5.0	37	10	150	DC	5.0	10	PS	5	GP	100
2N979	SR	.06		0.1	15	20	10	30	0.3	10	DC	3.0	5.0	PG	2	SW	200
2N980	SR	.06		0.1	12	20	10	30	0.3	10	DC	5.0	5.0	PG	2	SW	200
2N982	SR	.06		0.1	15	20	10	50	0.5	10	DC	3.0	5.0	PG	2	SW	450
2N983	SR	.06		0.1	15	15	10	40	0.5	10	DC	3.0	5.0	PG	2	SW	450
2N984	SR	.06		0.1	10	7.0	10	20	0.5	10	DC	5.0	5.0	PG	2	SW	350
2N985	TI	.15	0.3	0.2	7.0	15	3.0	5.0	2.0	30	100*	3.0	5.0	PG	5	SW	500
2N987	AP	.086		.01		40	1.2	100	6.0	1.0	1.0	1.2	6.0	PG	8	RF	100
2N987	MO	.06		.01		40		100	6.0	1.0	1.0	1.2	6.0	PG	8	RF	
2N990	AP	.067		.01		20	1.2	150	6.0	1.0	1.0	1.2	6.0	PG	8	RF	75
2N991	AP	.067		.01		20	1.2	150	6.0	1.0	1.0	1.2	6.0	PG	8	RF	75
2N992	AP	.067		.01		20	1.2	150	6.0	1.0	1.0	1.2	6.0	PG	8	RF	75
2N993	AP	.067		.01		25	1.2	150	6.0	1.0	1.0	1.2	6.0	PG	8	RF	75
2N995	FS,HU,MO	.36	1.2		15	20	4.0	85	1.0	20	DC	.005	15	PS	4	SW	250
2N996	FS	.36	1.2		12	15	4.0	2.3	10	10	100*	.05	10	NS	5	SW	250
2N997	TI	0.5	1.5	0.3	40	75	7.0	20K	10	100	DC	.01	60	NS	5	GP	
2N1000	GI,GT,SY	.15	0.3	0.1	25	40	40	65	0.5	10	DC	15	40	NG	2	SW	7.0
2N1007	SY			3.0	40							1*	25	P	72	AF	7.0*
2N1008	BN	0.4		0.3	20	20		95	5.0	10	1.0	500	10	PG	2	AF	
2N1008	SY	.167	0.4	0.3	15	20	15	90	5.0	10	1.0	10	10	PG	4	AF	.15
2N1008A	BN	0.4		0.3	40	40		95	5.0	10	1.0	500	25	PG	2	AF	
2N1008A	SY	.167	0.4	0.3	35	40	15	90	5.0	10	1.0	10	25	PG	4	AF	.15
2N1008B	BN	0.4		0.3	60	60		95	5.0	10	1.0	750	45	PG	2	AF	
2N1008B	SY	.167	0.4	0.3	50	60	15	90	6.0	10	1.0	15	45	PG	4	AF	.15
2N1008B M	BN	0.4		0.3	60	60		80	5.0	10	1.0	15	60	PG	2	AF	
2N1010	RC	.02		.002	10	10	10	35	3.5	0.3	1.0	10	10	NG	22	AF	
2N1011	BN,CV,DR		35	5.0	80	80	40	50	2.0	3*	DC	20*	80	PG	72	GP	0.2
2N1011	MO		90	5.0		80	40	85	2.0	1*	DC	15*	80	PG	72	GP	0.2
2N1011 SIG.C	DR		35	5.0	40	80	40	50	2.0	3*	DC	200	2.0	PG	72	GP	0.2
2N1011 USA	MO		90	5.0	40	80	40	75	2.0	1*	DC	15*	80	PG	72	GP	0.2
2N1012	GI,GT,TA	.15			22	40	35	65	.25	100	DC	200	40	NG	5	GP	0.2
2N1014	RC		50	.01		100								PG	72	SW	
2N1015	AF		150	7.5	20	30	25	10	12	2*	DC	100	30	NS	54	GP	1.0
2N1015	WS		150	7.5	30	30	25	10	12	2*	1.0	2*	30	NS	54	SW	
2N1015A	AF		150	7.5	45	60	25	10	12	2*	DC	100	60	NS	54	GP	1.0
2N1015A	WS		150	7.5	60	30	25	10	12	2*	1.0	2*	60	NS	54	SW	
2N1015B	AF		150	7.5	80		25	30	4.0	2*	DC	100	100	NS	54	GP	1.0
2N1015B	WS		150	7.5	100	30	25	10	12	2*	1.0	2*	100	NS	54	SW	
2N1015C	AF		150	7.5	110	50	25	30	4.0	2*	DC	100	150	NS	54	GP	1.0
2N1015C	WS		150	7.5	150	30	25	10	12	2*	1.0	2*	150	NS	54	SW	
2N1015D	WS		150	7.5	200	30	25	10	12	2*	1.0	2*	200	NS	54	SW	
2N1015E	WS		150	7.5	250	30	25	10	12	2*	1.0	2*	250	NS	59	SW	
2N1016	AF		150	7.5	20	30	25	30	4.0	5*	DC	100	30	NS	54	GP	
2N1016	WS		150	7.5	30	30	25	20	12	2*	1.0	2*	30	NS	54	SW	
2N1016A	AF		150	7.5	45		25	30	4.0	5*	DC	100	60	NS	54	GP	1.0
2N1016A	WS		150	7.5	60	30	25	20	12	2*	1.0	2*	60	NS	54	SW	
2N1016B	AF		150	7.5	80		25	30	4.0	5*	DC	100	100	NS	54	GP	1.0
2N1016B	WS		150	7.5	100	30	25	20	12	2*	1.0	2*	100	NS	54	SW	
2N1016C	AF		150	7.5	110		25	30	4.0	5*	DC	100	150	NS	50	GP	1.0
2N1016C	WS		150	7.5	150	30	25	20	12	2*	1.0	2*	150	NS	54	SW	
2N1016D	WS		150	7.5	200	30	25	20	12	2*	1.0	2*	200	NS	54	SW	
2N1016E	WS		150	7.5	250	30	25	20	12	2*	1.0	2*	250	NS	54	SW	
2N1017	KF	0.2		0.4	10	30	20	30	.35	10	DC	4.0	1.5	PG	2	SW	20*
2N1018	KF	0.2		0.4	6.0	30	20	30	.35	10	DC	4.0	1.5	PG	2	SW	25*
2N1021	DR,TI		150	7.0	50	100	20	60	1.5	2*	DC	2*	100	PG	72	GP	.43
2N1021A	DR,TI		150	7.0	50	100	30	60	1.5	5*	DC	2*	100	PG	72	GP	0.5

2N1022 2N1066

TRANSISTOR obsolete*	MFG	MAXIMUM						GAIN				MAX	@	TYPE	BASE	USE	typ
		P_C (watts)		I_C	V_{CE}	V_{CB}	V_{EB}	typ	V_{CE}	I_C	freq	I_{CBO}	V_{CE}				f_t
		T_A	T_C	amps				h_{fe}		ma amp*	kc mc*	μa ma*					f_{ab}*
2N1022	DR,TI		150	7.0	50	120	20	60	1.5	2*	DC	2*	120	PG	72	GP	.43
2N1022A	DR,TI		150	7.0	55	120	30	60	1.5	5*	DC	2*	120	PG	72	GP	0.5
2N1023	RC	.12	.24	.01		40	0.5	60	12	1.5	1.0	12	12	PG	41	RF	120*
2N1024	CY,KF	0.4		0.1	15	18	18	22	6.0	1.0	1.0	.025	15	PS	2	AF	4.0*
2N1024	NS	.15		.15	15		15	20				.025	15	PS	2	GP	
2N1024	SP	.25		0.1	15	18	18	15	6.0	1.0	1.0	.025	15	PS	2	GP	
2N1025	KF,SP	.25		0.1	35	40	40	15	6.0	1.0	1.0	.025	35	PS	2	AF	5.0*
2N1025	NS	.15		.15	35	40	35	13				.025	35	PS	2	GP	
2N1026	KF,SP	.25		0.1	35	40	40	30	6.0	1.0	1.0	.025	35	PS	2	AF	6.0*
2N1026A	CY	0.4		0.1	35	35		60			1.0	.025	35	PS	2	GP	2.0*
2N1027	CY,KF	0.4		0.1	15	18	18	36	6.0	1.0	1.0	.025	15	PS	2	AF	4.0*
2N1027	SP	.25		0.1	18	18	18	30	6.0	1.0	1.0	.025	15	PS	2	GP	
2N1028	CY,KF	0.4		0.1	10	12	12	18	6.0	1.0	1.0	.025	10	PS	2	AF	5.0*
2N1028	SP	.25		0.1	10	12	12	15	6.0	1.0	1.0	.025	10	PS	2	GP	
2N1031	BN		90	15	20	50		40	2.0	10*	DC	2*	15	PG	72	GP	
2N1031A	BN		90	15	30	60		40	2.0	10*	DC	2*	25	PG	72	GP	
2N1031B	BN		90	15	60	90		40	2.0	10*	DC	2*	60	PG	72	GP	
2N1031C	BN		90	15	70	100		40*	2$0	10*	DC	2*	60	PG	72	GP	
2N1032	BN		90	15	20	50		75	2.0	10*	DC	2*	15	PG	72	GP	
2N1032A	BN		90	15	30	60		75	2.0	10*	DC	2*	25	PG	72	GP	
2N1032B	BN		90	15	60	90		75	2.0	10*	DC	2*	60	PG	72	GP	
2N1032C	BN		90	15	70	100		75	2.0	10*	DC	2*	60	PG	72	GP	
2N1034	CY	0.4		0.1	40	50	20	16	6.0	1.0	1.0	1.0	30	PS	2	GP	0.3*
2N1034	HU,KF,SP	.25		.05	40	50	20	15	6.0	1.0	1.0	1.0	30	PS	2	GP	0.7*
2N1034	NS	.25		.16	40	50	20	16	6.0	1.0	1.0	1.0	30	PS	2	GP	
2N1034	RA	.05			40			15	6.0	1.0	1.0	.005	20	PS	14	GP	
2N1035	CY	0.4		0.1	35	50	20	30	6.0	1.0	1.0	1.0	30	PS	2	GP	0.2*
2N1035	HU,KF,SP	.25		.05	35	50	20	30	6.0	1.0	1.0	1.0	30	PS	2	GP	0.9*
2N1035	NS	.25		.16	35	50	20	29	6.0	1.0	1.0	1.0	30	PS	2	GP	
2N1035	RA	.05			35			30	6.0	1.0	1.0	.005	20	PS	14	GP	
2N1036	CY	0.4		0.1	30	50	20	62	6.0	1.0	1.0	1.0	30	PS	2	GP	0.3
2N1036	HU,KF,SP	.25		.05	30	50	20	60	6.0	1.0	1.0	1.0	30	PS	2	GP	1.0*
2N1036	NS	.25		.16	30	50	20	66				1.0	30	PS	2	GP	
2N1036	RA	.05			30	50	20	60	6.0	1.0	1.0	.005	20	PS	14	GP	
2N1037	CY	0.4		0.1	35	50	20	15	6.0	1.0	1.0	1.0	30	PS	2	GP	.15*
2N1037	KF	.25		.05	35	50	20	30	6.0	1.0	1.0	1.0	30	PS	2	AF	0.9*
2N1037	NS	.25		.16	35	50	20	25	6.0	1.0	1.0	1.0	30	PS	2	GP	
2N1037	RA	.05			35	50	20	30	6.0	1.0	1.0	.005	20	PS	14	GP	
2N1037	SP	.25		0.1	35	50	20	25	6.0	1.0	1.0	1.0	30	PS	2	GP	0.3*
2N1038	SY,TI	0.5	20	3.0	30	40	20	70	0.5	50	DC	750	40	PG	57	GP	.004
2N1039	HU	.25		.05	35	50	20	25	6.0	1.0	1.0	1.0	30	PG	2	GP	
2N1039	SY,TI	0.5	20	3.5	40	60	20	70	0.5	50	DC	750	60	PG	57	GP	.004
2N1039 USN	BN	0.4	20		40	60	20	40	0.5	1*	DC	250	30	PG	2	GP	
2N1040	SY,TI	0.5	20	3.5	50	80	20	70	0.5	50	DC	750	80	PG	57	GP	.004
2N1041	SY,TI	0.5	20	3.5	60	100	20	70	0.5	50	DC	750	100	PG	57	GP	.004
2N1041 USN	BN	0.4	20		60	100	20	40	0.5	1*	DC	250	30	PG	2	GP	
2N1042	SY,TI	0.5	20	3.5	30	40	20	83	1.0	50	DC	750	40	PG	57	GP	.004
2N1043	SY,TI	0.5	20	3.5	40	60	20	83	1.0	50	DC	750	60	PG	57	GP	.004
2N1044	SY,TI	0.5	20	3.5	50	80	20	83	1.0	50	DC	750	80	PG	57	GP	.004
2N1045	SY,TI	0.5	20	3.5	60	100	20	83	1.0	50	DC	750	100	PG	57	GP	.004
2N1046	TI		30	10	50	100	1.5	110	1.0	500	DC	10*	100	PG	72	SW	20
2N1046A	TI		30	10	50	130	1.5	110	1.0	500	DC	10*	130	PG	72	SW	20
2N1046B	TI		30	10	50	130	1.5	110	1.0	500	DC	10*	130	PG	72	SW	20
2N1047	GE,TI	1.0	40			80	6.0	3.0	10	100	12*	50	80	NS	98	GP	24
2N1047A	GE	1.0	40			80	6.0	3.0	10	100	12*	50	80	NS	98	GP	24
2N1047B	GE	1.0	40			80	6.0	3.0	10	100	12*	50	80	NS	98	GP	24
2N1048	GE,TI	1.0	40			120	6.0	3.0	10	100	12*	100	120	NS	98	GP	24
2N1048A	GE	1.0	40			120	6.0	3.0	10	100	12*	100	120	NS	98	GP	24
2N1048B	GE	1.0	40			120	6.0	3.0	10	100	12*	100	120	NS	98	GP	24
2N1049	GE,TI	1.0	40			80	6.0	3.0	10	100	12*	50	80	NS	98	GP	24
2N1049A	GE	1.0	40			80	6.0	3.0	10	100	12*	50	80	NS	98	GP	24
2N1049B	GE	1.0	40			80	6.0	3.0	10	100	12*	50	80	NS	98	GP	24
2N1050	GE,TI	1.0	40			120	6.0	3.0	10	100	12*	100	120	NS	98	GP	24
2N1050A	GE	1.0	40			120	6.0	3.0	10	100	12*	100	120	NS	98	GP	24
2N1050B	GE	1.0	40			120	6.0	3.0	10	100	12*	100	120	NS	98	GP	24
2N1051	WE	0.5		0.1	40	40	8.0	10	50	5.0	1.0	0.1	20	NS	5	SW	120
2N1054	TE	0.6	5.0	0.4		125	6.0	12	20	100	1*			NS	5	GP	
2N1056	GE,SF	.24		0.3	50	70	15	25	5.0	1.0	1.0	25	70	PG	45	GP	1.0*
2N1057	GE	.25		0.3	30	45	5.0	52	1.0	100	DC	16	45	PG	45	SW	0.3
2N1057	SF	.24		0.3	50	70	5.0	64	5.0	1.0	.27	16	45	PG	2	GP	
2N1058	SY	.15		.05	9.0			15	6.0	10	455			NG	67	RF	4.0
2N1059	SY	.18		0.1	12	20	10	75	1.5	35	DC	20	20	NG	67	AF	.01
2N1060	WE	.35		.05		40	6.0	50	10	10	DC	.10	10	NS	5	SW	120
2N1065	GI,GT	.12			20	40	1.0	20	5.0	5.0	2*	8.0	10	PG	14	SW	20
2N1066	AP	.12	.24	.01		40	0.5	60	8.0	1.0	1.0	12	12	PG	7	RF	

TRANSISTOR obsolete*	MFG	MAXIMUM P_C (watts) T_A	MAXIMUM P_C (watts) T_C	MAXIMUM I_C amps	MAXIMUM V_{CE}	MAXIMUM V_{CB}	MAXIMUM V_{EB}	GAIN typ h_{fe}	GAIN V_{CE}	GAIN I_C ma amp*	GAIN freq kc mc*	MAX I_{CBO} μa ma*	@ V_{CE}	TYPE	BASE	USE	typ f_t $f_{\alpha b}$*
2N1067	GE		5.0		60	60	12	45	4.0	200	DC	500	60	NS	5	GP	.75*
2N1067	RC		5.0	0.5	45	60	12	35	4.0	200	DC	15	60	NS	22	GP	
2N1068	GE		10		60	60	12	45	4.0	750	DC	500	60	NS	5	GP	.75*
2N1068	RC		10	1.5	45	60	12	38	4.0	750	DC	15	60	NS	22	GP	
2N1069	AF		50	4.0	45	60	9.0	35	4.0	1.5*	DC	100	30	NS	72	GP	
2N1069	RC		50	4.0	45	60	9.0	20	4.0	1.5*	DC	25	60	NS	72	GP	
2N1070	AF		50	4.0	45	60	9.0	35	4.0	1.5*		100	30	NS	72	GP	
2N1070	RC		50	4.0	45	60	9.0	20	4.0	1.5*	DC	25	60	NS	72	GP	
2N1072 USA	WE	2.0	12.5	2.0	50	75	6.0	38	5.0	750	DC	0.1	5.0	NS	5	SW	95
2N1073	BN,DR		60	10	40	40	.75	40	2.0	5*	DC	10*	40	PG	72	GP	1.0
2N1073A	BN,DR		60	10	80	80	.75	40	2.0	2*	DC	10*	80	PG	72	GP	1.0
2N1073B	BN,DR		60	10	120	120	.75	40	2.0	5*	DC	10*	120	PG	72	GP	1.0
2N1086	GE	.065		.02	9.0	9.0		40	1.0	1.0	DC	3.0	5.0	NG	67	RF	8.0*
2N1086A	GE	.065		.02	9.0	9.0		40	1.0	1.0	DC	3.0	5.0	NG	67	RF	8.0*
2N1087	GE	.065		.02	9.0	9.0		40	1.0	1.0	DC	3.0	5.0	NG	67	RF	8.0*
2N1090	CE,RC	.12		0.4	15	25	20	35	0.2	200	DC	8.0	12	NG	14	SW	
2N1091	CE,GI	.12		0.4	15	25	20	55	0.2	20	DC	8.0	12	NG	5	SW	16*
2N1091	RC	.12		0.4	12	25	20	45	0.3	200	DC	8.0	12	NG	2	SW	
2N1092	RC		2.0	0.5	30	60	12	35	4.0	200	DC	15	60	NS	2	SW	
2N1094 USA	WE	.15		.04	15	30	1.0	16	6.0	4.0	100	0.5	20	PG	5	SW	850
2N1097	GE	0.2		0.2		18	5.0	48	5.0	1.0	1.0	16	16	PG	4	AF	3.0*
2N1098	GE	0.2		0.2		18	5.0	44	5.0	1.0	1.0	16	16	PG	4	AF	3.0*
2N1099	BN,DR,RC		150	15	55	80	40	55	2.0	5*	DC	6*	80	PG	43	GP	200*
2N1099	MO		150	15		80	40	25	2.0	12*	DC	8*	80	PG	43	GP	.75
2N1100	BN,DR,RC		150	15	65	100	70	37	2.0	5*	DC	6*	100	PG	43	GP	200*
2N1100	MO		150	15		100	80	20	2.0	12*	DC	8*	100	PG	43	GP	10*
2N1100	SF		70	15		100	80	20	2.0	12*	DC	8*	100	PG	43	GP	
2N1101	SY	.18		0.1	15	20	10	40	6.0	1.0	1.0	20	50	NG	67	GP	.01
2N1102	SY	.18		0.1	25	40	10	40	6.0	1.0	1.0	20	40	NG	67	GP	.01
2N1108*	TI		.03	.005		16		50	6.0	0.5	455	10	12	PG	67	RF	20
2N1109*	TI		.03	.005		16		10	6.0	0.5	455	10	12	PG	67	SW	20
2N1110*	TI		.03	.005		16		30	6.0	0.5	455	10	12	PG	67	RF	20
2N1111*	TI		.03	.005		20		18	6.0	0.5	455	10	12	PG	67	RF	20
2N1111A*	TI		.03	.005		20		30	6.0	0.5	455	10	12	PG	67	RF	20
2N1111B*	TI		.03	.005		20		30	6.0	0.5	455	10	12	PG	67	RF	20
2N1114	SY	.18		0.2	15	25	15	80	0.2	20	DC	30	25	NG	4	GP	7.0
2N1115	GE	.15		.125	15	20	10	60			DC			PG		GP	
2N1116	TE	0.6	5.0	1.0	60	60	6.0	6.0	20	100	1*	15	60	NS	2	GP	
2N1117	TE	0.6	5.0	0.4	60	60	6.0	4.0	20	100	1*	15	60	NS	5	SW	
2N1118	CY	0.4		0.1	25	25	10	18	6.0	1.0	1.0	1.0	25	PS	2	GP	8.0*
2N1118	GT	.225			25	25	10	15	6.0	1.0	1.0	0.1	10	PS	2	GP	
2N1118	PH,SR	.15		.05	25	25	10	30	6.0	1.0	1.0	1.0	25	PS	2	RF	
2N1118A	CY	0.4		0.1	25	25		23	6.0	1.0	1.0	0.1	10	PS	2	GP	
2N1118A	PH,SR	.15		.05	25	25		25	6.0	1.0	1.0	1.0	25	PS	2	RF	
2N1119	CY	0.4		0.1	10	10	10	15			1.0	0.1	10	PS	2	GP	
2N1119	GT	.225			10	10	10	3.0	6.0	1.0	4*	0.1	10	PS	2	RF	
2N1119	PH,SR	.15		.05	10	10	10	15			1.0	1.0	10	PS	2	RF	20
2N1120	BN,CV,MO		45	15	70	80	40	35	2.0	10*	DC	15*	80	PG	72	GP	.75
2N1120 USA	MO		90	15		80	40	75	2.0	5*		15*	80	PG	72	GP	.75
2N1121	GE	.065		.02	15	15		72	1.0	1.0	DC	5.0	15	NG	67	RF	8.0*
2N1122	GI,PH	.025		.05	6.0	15		24	3.0	1.0		5.0	5.0	PG	20	SW	
2N1122	SR	.025		.05	12							5.0	6.0	PG	19	SW	
2N1122A	GI,PH	.025		.05	6.0	15		24	3.0	1.0	DC	5.0	5.0	PG	20	SW	80
2N1122A	SR	.025		.05	9.0	15		70	3.0	1.0	DC	5.0	6.0	PG	19	SW	80
2N1123	PH	.75		0.4	100	45	45	40	1.0	100		25	45	PG	5	SW	
2N1124	PH	0.3		.06	40			70				75	40	PG	3	AF	
2N1125	PH	0.3		.06	40			50	1.0	500		75	40	PG	3	AF	
2N1126	PH	1.0		.06	40			70				75	40	PG	3	AF	
2N1127	PH	1.0		.06	40			50	1.0	500		75	40	PG	3	AF	
2N1128	PH	.15		.06	25			115				20	10	PG	3	AF	
2N1129	PH	.15		.06	25			100	0.6	100		25	25	PG	3	AF	
2N1130	PH	.15		.06	30			50	0.6	100		25	30	PG	3	AF	
2N1131	FS,HU,SY,TI	0.6	2.0	0.6	35	50	5.0	32	5.0	1.0	1.0	1.0	30	PS	2	RF	70
2N1131A	HU,SY	0.6			40	60	5.0	32	5.0	1.0	1.0	1.0	0.5	PS	2	GP	
2N1132	FS,HU	0.6	2.0	0.6	35	50	5.0	60	5.0	1.0	1.0	100	50	PS	2	RF	80
2N1132	MO,SY,TI	0.6	2.0	0.6	35	50	5.0	60	10	5.0	1.0	1.0	30	PS	5	RF	95
2N1132A	HU,MO,SY	0.6	2.0	0.6	40	60	5.0	60	5.0	1.0	1.0	0.5	45	PS	2	RF	95
2N1132B	HU	0.6	2.0	0.6	50	70	6.0	60	5.0	1.0	1.0	.01	50	PS	2	GP	95
2N1132B	MO,SY	0.6	2.0	0.6	45	70	6.0	60	10	5.0	1.0	.01	50	PS	2	SW	120
2N1136	BN		60	6.0	30	60		75	5.0	3*	DC	1*	25	PG	72	GP	
2N1136A	BN		60	6.0	55	90		75	5.0	3*	DC	1*	50	PG	72	GP	
2N1136A*	TS		106	5.0		90						5000	90	PG	72	GP	
2N1136C	BN		60	6.0	65	100		75	5.0	3*	DC	1*	60	PG	72	GP	
2N1137	BN		60	6.0	30	60		110	5.0	3*	DC	1*	25	PG	72	GP	

TRANSISTOR obsolete*	MFG	MAXIMUM						GAIN				MAX	@	TYPE	BASE	USE	typ
		P_C (watts)		I_C	V_{CE}	V_{CB}	V_{EB}	typ h_{fe}	V_{CE}	I_C	freq	I_{CBO}	V_{CE}				f_t
		T_A	T_C	amps						ma amp*	kc mc*	μa ma*					$f_{\alpha b}$*
2N1137A	BN		60	6.0	55	90		110	5.0	3*	DC	1*	60	PG	72	GP	
2N1137B	BN		60	6.0	65	100		110	5.0	3*	DC	2*	60	PG	72	GP	
2N1138	BN		60	60	30	60		150	5.0	3*	DC	1*	26	PG	72	GP	
2N1138A	BN		60	60	55	90		150	5.0	3*	DC	1*	60	PG	72	GP	
2N1138B	BN		60	60	65	100		150	5.0	3*	DC	1*	60	PG	72	GP	
2N1139	CD	.875				15	3.0	110				5.0	15	NS	5	GP	
2N1141	MO,TI	0.3	.75	0.1		35	1.0	18	10	10	100*	5.0	15	PG	5	RF	850
2N1142	MO,TI	0.3	.75	0.1		30	0.7	18	10	10	100*	5.0	15	PG	5	RF	850
2N1143	MO,TI	0.3	.75	0.1		25	0.5	18	10	10	100*	5.0	15	PG	5	RF	1000
2N1144	GE	.14		0.1	13	16		55	5.0	1.0	1.0	16	16	PG	45	GP	
2N1145	GE	.14		0.1	13	16		60	5.0	1.0	1.0	16	16	PG	45	RF	
2N1146	BN		90	15	20	40		150	2.0	5*	DC	4*	20	PG	72	GP	
2N1146	CV		75	15	15	40	30					4*	20	PG	72	GP	
2N1146A	BN		90	15	30	60		150	2.0	5*	DC	4*	30	PG	72	GP	
2N1146A	CV		75	15	45	60	30					4*	30	PG	72	GP	
2N1146B	BN		90	15	40	80		150	2.0	5*	DC	4*	40	PG	72	GP	
2N1146B	CV		75	15	65	80	30					4*	40	PG	72	GP	
2N1146C	BN		90	15	50	100		150	2.0	5*	DC	4*	50	PG	72	GP	
2N1146C	CV		75	15	80	100	30					4*	50	PG	72	GP	
2N1147	BN		90	15	20	40		150	2.0	5*	DC	4*	20	PG	72	GP	
2N1147	CV		75	15	15	40	30					4*	20	PG	72	GP	
2N1147A	BN		90	15	30	60		150	2.0	5*	DC	4*	30	PG	72	GP	
2N1147A	CV		75	15	45	60	30					4*	30	PG	72	GP	
2N1147B	BN		90	15	40	80		150	2.0	5*	DC	4*	40	PG	72	GP	
2N1147B	CV		75	15	65	80	30					4*	40	PG	72	GP	
2N1147C	BN		90	15	50	100		150	2.0	5*	DC	4*	50	PG	72	GP	
2N1147C	CV		75	15	80	100	30					4.0	50	PG	72	GP	
2N1149	NS,TI	.15		.025		45	1.0	14		25	DC	2.0	30	NS	67	GP	9.0
2N1150	NS,TI	.15		.025		45	1.0	29		25	DC	2.0	30	NS	67	GP	10
2N1150/904	TI	.15		.025		45	1.0					2.0	30	NS	67	GP	3.0
2N1151	NS,TI	.15		.025		45	1.0	54		25	DC	2.0	30	NS	67	GP	12
2N1151/904A	TI	.15		.025		45	1.0					2.0	30	NS	67	GP	10
2N1152	NS,TI	.15		.025		45	1.0	62		25	DC	2.0	30	NS	67	GP	13
2N1153	NS,TI	.15		.025		45	1.0	254		25	DC	2.0	30	NS	67	GP	14
2N1153/910	TI	.15		.025		45	1.0					2.0	30	NS	67	GP	4.0
2N1154	NS	.75				50	1.0	24		60		5.0		NS	2	GP	
2N1154/951	TI		.75	.06		50						5.0	50	NS	67	GP	
2N1155	NS	.75				80	1.0	24		50		6.0		NS	2	GP	
2N1155/952	TI		.75	.05		80						6.0	80	NS	67	GP	
2N1156	NS	.75				120	1.0	24		40		8.0		NS	2	GP	
2N1156/953	TI		.75	.04		120						8.0	120	NS	67	GP	
2N1157	MH		187	40	45	60	28	50	2.0	10*	DC	7*	60	PG	49	GP	0.2
2N1157A	MH		187	40	50	80	28	50	2.0	10*	DC	20*	80	PG	49	GP	0.2
2N1158	PH	.06		0.1	15	20	0.5	50	10	3.0		5.0	10	PG	2	RF	
2N1158A	PH	.75		0.1	15	20	0.5	50	10	3.0		5.0	10	PG	2	RF	
2N1159	DR			5.0	60	80	20	50		3*	DC	100	2.0	PG	72	GP	
2N1160	DR			7.0	60	80	20	32		5*		100	2.0	PG	72	GP	
2N1162	CV,MO		50	25	22	50	25	20	1.0	25*	DC	15*	50	P	72	GP	.12
2N1162A	MO		90	25	22	50	25	25	1.0	25*	DC	15*	50	PG	72	GP	.12
2N1163	MO		50	25	22	50	25	25	1.0	25*	DC	15*	50	PG	72	GP	.12
2N1163A	MO		90	25	22	50	25	25	1.0	25*	DC	15*	50	PG	72	GP	.12
2N1164	CV		90	25	45	80	40	20	1.0	25*	DC	15*	80	PG	72	GP	.12
2N1164	MO		50	25	45	80	40	25	1.0	25*	DC	15*	80	PG	72	GP	.12
2N1164A	MO		90	25		80	40	25	1.0	25*	DC	15*	80	PG	72	GP	.12
2N1165	MO		50	25	45	80	40	25	1.0	25*	DC	15*	80	PG	72	GP	.12
2N1165A	MO		90	25		80	40	25	1.0	25*	DC	15*	80	PG	72	GP	.12
2N1165 USN	MO		90	25	45	80	40	35	1.0	25*	DC	15*	80	PG	72	GP	.12
2N1166	CV,MO		50	25	60	120	50	20	1.0	25*	DC	15*	100	PG	72	GP	.12
2N1166A	MO		90	25		100	50	25	1.0	25*	DC	15*	100	PG	72	GP	.12
2N1167	MO		50	25	60	100	50	25	1.0	25*	DC	15*	100	PG	72	GP	.12
2N1167A	MO		90	25		100	50	25	1.0	25*	DC	15*	100	PG	72	GP	.12
2N1168	DR			5.0	30	50	20	90	12	600	DC			PG	72	AF	
2N1169	SY	.15		0.4	15	25	25	40	0.3	200	DC	50	25	NG	2	SW	4.5
2N1170	RC	.12		0.4	20	40	40	35	0.3	200	DC	8.0	12	NG	2	SW	
2N1170	SY	.15		0.4	32	40	40	40	0.3	200	DC	50	40	NG	2	SW	4.5
2N1172	DR			1.5	30	40	20	40	10	100	1.0			PG	71	GP	
2N1173	WE	.25		0.2	20	35	35	80	10	0.5	1.0	10	20	NG	5	RF	6.0
2N1173W*	WE	.25		0.2	20	35	35	125	10	0.5	1.0	10	20	NG	2	RF	6.0
2N1174	WE	.25		0.2	20	35	35	90	10	0.5	1.0	10	20	PG	5	RF	5.0
2N1174W*	WE	.25		0.2	20	35	35	125	10	0.5	1.0	10	20	PG	2	RF	5.0
2N1175	GE,TA	0.2		0.2		35	10	80	5.0	1.0	1.0	12	30	PG	4	GP	4.2*
2N1175	MO	.225		0.5	25	35	10	80	5.0	1.0*	1.0	12	30	PG		GP	1.5*
2N1176	BN	0.3		0.3	15	15		50	5.0	10*	1.0	25	10	PG	14	AF	
2N1176A	BN	0.3		0.3	40	40		50	5.0	10*	1.0	30	25	PG	14	AF	
2N1176B	BN	0.3		0.3	60	60		50	5.0	10*	1.0	35	45	PG	14	AF	

TRANSISTOR obsolete*	MFG	MAXIMUM P_C (watts) T_A	MAXIMUM P_C (watts) T_C	MAXIMUM I_C amps	MAXIMUM V_{CE}	MAXIMUM V_{CB}	MAXIMUM V_{EB}	GAIN typ h_{fe}	GAIN V_{CE}	GAIN I_C ma amp*	GAIN freq kc mc*	MAX I_{CBO} μa ma*	@ V_{CE}	TYPE	BASE	USE	typ f_t f_{ab}*
2N1176B	BN	0.3		0.3	60	60		50	5.0	10*	1.0	35	45	PG	14	AF	
2N1177	RC	.08		.01		30	1.0	100	12	1.0	1.0	12	12	PG	37	RF	
2N1178	RC	.08		.01		30	1.0	40	12	1.0	1.0	12	12	PG	37	RF	
2N1179	RC	.08		.01		30	1.0	80	12	1.0	1.0	12	12	PG	37	RF	
2N1180	RC	.08		.01		30	0.5	80	12	1.0	1.0	12	12	PG	37	RF	140*
2N1183	RC	1.0	7.0	3.0	20	45	20					250	45	PG	5	GP	0.6*
2N1183A	RC	1.0	7.0	3.0	30	60	20					250	60	PG	5	GP	0.6*
2N1183B	RC	1.0	7.0	3.0	40	80	20					250	80	PG	6	GP	0.6*
2N1184	RC	1.0	7.0	3.0	20	45	20					250	45	PG	5	GP	0.6*
2N1184A	RC	1.0	7.0	3.0	30	60	20					250	60	PG	5	GP	0.6*
2N1184B	RC	1.0	7.0	3.0	40	80	20					250	80	PG	5	GP	0.6*
2N1185	MO,TA	0.2		0.5	30	45	30	260	6.0	1.0	DC	10	30	PG		GP	0.8
2N1186	MO,TA	0.2		0.5	45	60	30	49	6.0	1.0	DC	50	60	PG	2	GP	1.5*
2N1187	MO,TA	0.2		0.5	45	60	30	80	6.0	1.0	DC	50	60	PG	2	GP	2.0*
2N1188	MO,TA	0.2		0.5	45	60	30	130	6.0	1.0	DC	50	60	PG	2	GP	2.5*
2N1189	MO	0.2		0.5	30	45	15	120	6.0	1.0	1.0	10	30	PG		GP	0.5
2N1190	MO	0.2		0.5	30	15	15	190	6.0	1.0	1.0	10	30	PG		GP	0.5
2N1191	MO,TA	0.2		0.2	25	40	25	40	6.0	1.0	1.0	15	25	PG	14	GP	1.5*
2N1192	MO,SY,TA	0.2		0.2	25	40	25	75	6.0	1.0	1.0	15	25	PG	4	GP	1.0
2N1193	MO,SY,TA	0.2		0.2	25	40	25	160	6.0	1.0	1.0	15	25	PG	4	GP	2.5*
2N1194	MO,TA	0.2		0.2	25	40	25	280	6.0	1.0	1.0	15	25	PG		GP	3.0*
2N1195	MO	.225		.04	20	30	1.0	18	10	10	100*	5.0	20	PG		SW	850
2N1195 JAN	WE	.25		.04	20	30	1.0	15	10	10	100*	5.0	20	PG	5	SW	550
2N1196	HU	.35			70	70	4.0					.25	20	PS	2	RF	45*
2N1197	HU	.35			70	70	4.0					.25	20	PS	2	RF	55*
2N1198	GE	.075		.075	25	25	5.0	30	1.0	8.0	DC	1.5	15	NG	67	SW	9.0*
2N1202	KF		10	3.0	60	80	28	86	2.0	500	DC	2*	80	PG	50	GP	0.5
2N1202	MH		10	3.5	60	80	28	86	2.0	500	DC	2*	80	PG	51	GP	0.4
2N1203	KF		10	3.0	60	80	28	37	2.0	2*	DC	2*	80	PG	50	GP	0.5
2N1203	MH		10	3.5	70	120	28	37	2.0	2*	DC	2*	120	PG	51	GP	0.4
2N1204	MO	.25	0.5	0.5	15	20	4.0	2.0	10	20	200	7.0	5.0	PG		SW	400
2N1204	PH	0.2		0.5	15	20	0.4	25	1.5	400	1.0	7.0	5.0	PG	5	SW	
2N1204A	PH	0.2		0.5	15	20	0.4	15	0.5	200		7.0	5.0	PG	5	SW	
2N1206	TE	1.0	5.0	0.1	60	60	3.0	55	10	5.0	1.0	1.0	30	NS	2	GP	
2N1207	TE	1.0	5.0	0.1	125	125	3.0	55	10	5.0	1.0	1.0	30	NS	2	GP	
2N1208	SF,TE	3.5	85	5.0	60	60	10	20	30	300	1*	10*	60	NS	48	GP	15
2N1209	SF	3.5	85	5.0	45	45	5.0	20	30	300	1*	20*	45	NS	48	GP	15
2N1210	TE	3.5	60	5.0	60	80	8.0	25	12	2*	DC			NS	77	GP	15*
2N1211	TE	3.5	60	5.0	80	80	8.0	25	12	2*	DC			NS	77	GP	15*
2N1212	SF,TE	3.5	85	3.0	60	60	10	30	15	1*	DC	10*	60	NS	48	GP	
2N1213	RC	.075		0.1		25	1.0					3.0	12	PG	5	SW	
2N1214	RC	.075		0.1		25	1.0					3.0	12	PG	2	SW	
2N1215	RC	.075		0.1		25	1.0					3.0	12	PG	2	SW	
2N1216	RC	.075		0.1		25	1.0					3.0	12	PG	2	SW	
2N1217	GE	.075		.025	20	20	5.0	60	1.0	2.0	DC	1.5	15	NG	67	GP	4.0
2N1218	SY		6.0	2.0	37	45		160	1.5	100	DC	3*	45	NG	72	AF	7.0
2N1219	CY	0.4		0.1	25	30	20	36	.25	5.0	DC	0.1	10	PS	2	GP	5.0*
2N1219	GT,KF	.15		0.1	25	30	20	36	.25	5.0	DC	0.1	10	PS	14	SW	10*
2N1219	SP	.25		0.1	25	30	20	36	.25	5.0	DC	0.1	10	PS	2	GP	
2N1220	CY,KF	0.4		0.1	25	30	20	22	.25	5.0	DC	0.1	10	PS	2	GP	5.0*
2N1220	GT	.15		0.1	25	30	20	36	.25	5.0	DC	0.1	10	PS	14	SW	
2N1220	SP	.25		0.1	25	30	20	36	.25	5.0	DC	0.1	10	PS	2	GP	
2B1221	CY,KF	0.4		0.1	25	30	10	42	6.0	1.0	1.0	0.1	10	PS	2	GP	10*
2N1221	GT	.15		0.1	25	30	10	50	6.0	1.0	1.0	0.1	10	PS	14	RF	
2N1221	SP	.25		0.1	25	30	10	30	6.0	1.0	1.0	0.1	10	PS	4	GP	
2N1222	CY,KF	0.4		0.1	25	30	10	22	6.0	1.0	1.0	0.1	10	PS	2	GP	7.0*
2N1222	GT	.15		0.1	25	30	10	27	6.0	1.0	1.0	0.1	10	PS	14	RF	
2N1222	SP	.25		0.1	25	30	10	15	6.0	1.0	1.0	0.1	10	PS	4	GP	
2N1223	CY,KF	0.4		0.1	40	40	10	16	6.0	1.0	1.0	0.1	10	PS	2	GP	2.0*
2N1223	GT	.15		0.1	40	40	10	10	6.0	1.0	1.0	0.1	10	PS	14	SW	
2N1223	SP	.25		0.1	40	40	10	10	6.0	1.0	1.0	0.1	10	PS	2	GP	
2N1224	AP,RC,SY	.12	.24	.01	35	40	0.5	60	80	1.0	1.0	12	12	PG	7	RF	20
2N1224 USA	SY	.12	.24	.01		40	0.5	175	12	1.5	1.0	1*	20	PG	7	RF	40
2N1225	AP,CG,RC, SY	.12	.24	.01	35	40	0.5	75	8.0	1.0	1.0	12	12	PG	7	RF	80
2N1225 USA	SY	.12	.24	.01		40	0.5	175	12	1.5	1.0	1*	20	PG	7	RF	70
2N1226	AP,RC,SY	.12	.24	.01	60	60	0.5	60	8.0	1.0	1.0	12	12	PG	7	RF	30
2N1228	CY,KF,HU, NS,SP	0.4	5.0	0.1	15	15	15	21	5.0	1.0	1.0	0.1	12	PS	2	GP	2.0*
2N1229	CY,HU,KF, NS	0.4	5.0	0.1	15	15	15	47	5.0	1.0	1.0	0.1	12	PS	2	GP	4.0*
2N1230	CY,HU,KF, NS,SP	0.4	5.0	0.1	35	35	35	23	5.0	1.0	1.0	0.1	30	PS	2	GP	2.0*
2N1231	CY,HU,KF, NS,SP	0.4	5.0	0.1	35	35	35	48	5.0	1.0	1.0	0.1	30	PS	4	GP	4.0*

TRANSISTOR obsolete*	MFG	MAXIMUM						GAIN			MAX	@	TYPE	BASE	USE	typ
		P_C (watts)		I_C amps	V_{CE}	V_{CB}	V_{EB}	typ h_{fe}	V_{CE}	I_C ma amp*	freq kc mc*	I_{CBO} μa ma*	V_{CE}				f_t $f_{\alpha b}$*
		T_A	T_C														
2N1232	CY,HU,KF,NS,SP	0.4	5.0	0.1	60	60	60	22	5.0	1.0	1.0	0.1	50	PS	2	GP	2.0*
2N1233	CY,KF,NS	0.4	5.0	0.1	60	60	60	45	5.0	1.0	1.0	0.1	50	PS	2	GP	2.0*
2N1234	CY,KF,NS	0.4	5.0	0.1	110	110	110	24	5.0	1.0	1.0	0.1	90	PS	2	GP	1.0*
2N1238	HU	0.4	5.0		15	15	15	23	5.0	1.0	1.0	0.1	12	PS	4	GP	1.2*
2N1239	HU	0.4	5.0		15	15	15	47	5.0	1.0	1.0	0.1	12	PS	2	GP	1.2*
2N1240	HU	0.4	5.0		35	35	35	23	5.0	1.0	1.0	0.1	30	PS	2	GP	1.2*
2N1241	HU	0.4	5.0		35	35	35	47	5.0	1.0	1.0	0.1	30	PS	2	GP	1.2*
2N1242	HU	0.4	5.0		60	60	60	23	5.0	1.0	1.0	0.1	50	PS	2	GP	1.0*
2N1243	HU	0.4	5.0		60	60	60	47	5.0	1.0	1.0	0.1	50	PS	2	GP	1.0*
2N1244	HU	0.4	5.0		110	110	110	23	5.0	1.0	1.0	0.1	90	PS	2	GP	1.0*
2N1247	NS	.03			6.0	6.0	2.0	15		5.0	DC			NS	2	GP	
2N1247	TE,TI	.03		.005	6.0	6.0	2.0	300	3.0	1.0	1.0	.005	4.0	NS	2	GP	
2N1248	NS	.03			6.0		1.0	7.0		.002	DC	10*		NS	2	GP	
2N1248	TE,TI	.03		.005	6.0	6.0	2.0	300	3.0	1.0	1.0	.01	4.0	NS	2	GP	
2N1251	SY	.15		0.1	11	20		156	6.0	1.0	1.0	50	20	NG	67	AF	7.5
2N1252	FS,GI,PS,FH,TI	0.6	2.0		15	30	5.0	4.0	10	50	20*	10	20	NS	5	SW	150
2N1253	FS,PS,RH	0.6	2.0		15	30	5.0	5.5	10	50	20*	.01	20	NS	5	SW	150
2N1253	GI	0.6	2.0		15	30	5.0	5.5	10	50	20*	10	20	NS	5	SW	
2N1253	TI	0.6	2.0		15	30	5.0	6.0	10	50	20*	100	30	NS	5	SW	100
2N1254	HU	.275			30	30	5.0	25	10	2.0	1.0	0.2	25	PS	2	RF	0.8*
2N1255	HU	.275			30	30	5.0	55	10	2.0	1.0	0.2	25	PS	2	RF	
2N1256	HU	.275			40	40	5.0	25	10	2.0	1.0	0.2	35	PS	2	RF	
2N1257	HU	.275			40	40	5.0	55	10	2.0	1.0	0.2	35	PS	2	RF	
2N1258	HU	.275			30	30	5.0	25	10	2.0	1.0	0.2	25	PS	2	RF	
2N1259	HU	.275			50	50	5.0	55	10	2.0	1.0	0.2	40	PS	2	RF	
2N1261	KF		10	3.0	45	80	28	30	2.0	2*	DC	2*	80	PG	50	GP	0.5
2N1261	MH		10	3.5	45	80	28	30	2.0	2*	DC	2*	80	PG	51	GP	0.4
2N1262	KF		10	3.0	45	80	28	43	2.0	2*	DC	2*	80	PG	50	GP	0.5*
2N1262	MH		10	3.5	45	80	28	43	2.0	2*	DC	2*	80	PG	51	GP	0.4
2N1263	KF		10	3.0	45	80	28	64	2.0	2*	DC	2*	80	PG	50	GP	0.5
2N1263	MH		10	3.5	45	80	28	64	2.0	2*	DC	2*	80	PG	51	GP	0.4
2N1273	TI	.15		.15	15	15	10	50	1.0	50	DC	14	12	PG	14	AF	
2N1274	TI	.15		.15	25	25	10	50	1.0	50	DC	14	12	PG	14	AF	
2N1275	CY	0.4		0.1	80	80		17			DC	1.0	60	PS	2	GP	0.5*
2N1275	NS	.25		.16	80	100	60					1.0	60	PS	2	GP	
2N1276	GE	.15		.025	30	40	1.0	14	5.0	1.0	1.0	1.0	30	NS	2	GP	30*
2N1277	GE	.15		.025	30	40	1.0	33	5.0	1.0	1.0	1.0	30	NS	2	GP	30*
2N1278	GE	.15		.025	30	40	1.0	66	5.0	1.0	1.0	1.0	30	NS	2	GP	30*
2N1279	GE	.15		.025	30	40	1.0	101	5.0	1.0	1.0	1.0	30	NS	2	GP	34*
2N1292	SY		25	3.0	25	35	15	25	2.0	1*	DC	1*	35	NG	72	GP	
2N1294	SY		25	3.0	37	60	15	25	2.0	1*	DC	2*	60	NG	72	GP	
2N1296	SY		25	3.0	50	80		25	2.0	1*	DC	3*	80	NG	72	GP	
2N1299	SY	0.2		0.2	15	40	15	110	10	1*	DC	100	40	NG	4	SW	5.0*
2N1300	RC,SR,TI	.15	0.3	0.1	12	13	1.0	120	3.0	10	1.0	3.0	6.0	PG	2	SW	135
2N1301	RC,SR,TI	.15	0.3	0.1	12	13	4.0	120	3.0	10	1.0	3.0	6.0	PG	2	SW	135
2N1302	CG,RC,SY,TA,TI	.15	0.3	0.3	25	25	25	105	5.0	1.0	1.0	6.0	25	NG	4	SW	4.0
2N1303	GE,RC,SY,TA,TI	.15	0.3	0.3	25	30	25	115	5.0	1.0	1.0	6.0	25	PG	4	SW	4.0
2N1303	KF	0.2		0.3		30	25	90	5.0	1.0	1.0	6.0	25	PG	2	SW	4.5*
2N1304	CG,SY,TI,TA	.15	0.3	0.3	20	25	25	120	5.0	1.0	1.0	6.0	25	NG	4	SW	6.0
2N1305	CG,GE,RC,SF,SY,TI	.15	0.3	0.3	20	30	25	100	5.0	1.0	1.0	6.0	25	PG	4	GP	6.0
2N1305	KF	0.2		0.3		30	25					6.0	25	PG	2	SW	8.0*
2N1306	CG,RC,SY,TA,TI	.15	0.3	0.3	15	25	25	135	5.0	1.0	1.0	6.0	25	NG	4	SW	9.0
2N1307	KF	0.2		0.3		30	25	100	1.0	10	DC	6.0	25	PG	2	SW	9.0
2N1307	SF,SY,TA,TI	.15	0.3	0.3	15	30	25	150	5.0	1.0	1.0	6.0	25	PG	4	GP	9.0
2N1308	CG,RC,SY,TA,TI	.15	0.3	0.3	15	25	25	170	5.0	1.0	1.0	6.0	25	NG	4	SW	16
2N1309	KF	0.2		0.3		30	25					6.0	25	PG	2	SW	20*
2N1309	RC	.15	0.3	0.3	15	25	25	125	1.0	10	DC	6.0	25	PG	4	SW	18*
2N1309	SF,SY,TI	.15	0.3	0.3	15	30	25	190	5.0	1.0	1.0	6.0	25	PG	2	GP	15
2N1310	GT,TA,TI	.12				90	20	56	5.0	1.0	1.0	7.0	5.0	NG	2	GP	0.5
2N1311	GT,TA,TI	.12				75	20	50	5.0	1.0	1.0	7.0	5.0	NG	2	GP	0.7
2N1312	GT,TA,TI	.12				50	20	65	5.0	1.0	1.0	7.0	5.0	PG	14	GP	
2N1313*	TS	.18	.35	0.4	15	30	20					25	30	PG	2	SW	
2N1314	AP	13		3.0	16			45			DC	100	0.5	PG	72	GP	
2N1319	RC	.12		0.4		20	20	30	.35	400		6.0	12	PG	2	SW	5.0*
2N1321	SY		25	3.0	23	35	15	60	2.0	500	DC	1.0	35	NG	50	GP	
2N1323	SY		25	3.0	35	60	15	60	2.0	500	DC	2.0	60	NG	50	GP	

TRANSISTOR obsolete*	MFG	MAXIMUM						GAIN				MAX	@	TYPE	BASE	USE	typ
		P_C (watts)		I_C amps	V_{CE}	V_{CB}	V_{EB}	typ h_{fe}	V_{CE}	I_C ma amp*	freq kc mc*	I_{CBO} μa ma*	V_{CE}				f_t $f_{\alpha b}$*
		T_A	T_C														
2N1325	SY		25	3.0	45	80	15	30	3.0	1*	DC	3*	80	NG	50	GP	
2N1326	KF			3.0	45	100	15	80	2.0	500	DC	2*	100	PG	50	GP	
2N1335	PS	0.8	2.8	0.3	45	120	4.0	65	10	30	DC	1.0	90	NS	2	GP	90
2N1336	PS	0.8	2.8	0.3	45	120	4.0	1.0	50	30	70*	.01	120	NS	2	GP	190
2N1338	PS	0.8	2.8	0.3	25	80	3.0	1.0	30	20	70*	.01	10	NS	2	RF	100
2N1339	PS	0.8	2.8	0.3	50	120	3.0	65	10	30	DC	1.0	10	NS	2	GP	90
2N1340	PS	0.8	2.8	0.3	50	120	3.0	1.0	50	30	70*	10	60	NS	5	SW	100
2N1341	PS	0.8	2.8	0.3	50	120	3.0	65	10	30	DC	1.0	10	NS	2	GP	90
2N1342	PS	0.8	2.8	0.3	65	150	5.0	1.0	50	30	70*	.01	120	NS	2	RF	100
2N1358	BN,DR,TS		150	15	40	80	50	35	2.0	5*	DC	6*	80	PG	43	GP	100
2N1358	CG		70	15		80	60	35	2.0	5*	DC	6*	80	PG	43	GP	0.2*
2N1358	MO,RC		150	15		80	60	55	2.0	1.2*	DC	6*	60	PG	43	GP	.75
2N1358A	DR,MO		150	15	60	100	60	35	2.0	5*	DC	10*	100	PG	71	GP	
2N1358 JAN	MO		150	15		80	60	50	2.0	2*		8*	80	PG		RF	100*
2N1358M JAN	DR			15	40	80	40	35	2.0	5*	DC	4*	80	PG	43	GP	
2N1358 USA	MO,TS		150	15	40	80	60	35	2.0	5*	DC	8*	80	PG	43	RF	200*
2N1359	BN		90	3.0		50	12	22	4.0	3*	DC	3*	40	PG	72	GP	
2N1359	MO		90	10	25	50	25	55	4.0	1*	DC	3*	40	PG	72	GP	0.8
2N1360	BN		90	3.0		50	12	35	4.0	3*	DC	3*	40	PG	72	GP	
2N1360	MO		90	10	25	50	25	90	4.0	1*	DC	3*	40	PG	72	GP	0.8
2N1362	BN		90	3.0		100	12	22	4.0	3*	DC	3*	75	PG	72	GP	
2N1362	MO		90	10	55	100	50	55	4.0	1*	DC	3*	75	PG	72	GP	0.8
2N1363	BN		90	3.0		100	12	35	4.0	3*	DC	3*	75	PG	72	GP	
2N1363	MO		90	10	55	100	50	90	4.0	1*	DC	3*	75	PG	72	GP	0.8
2N1364	BN		90	3.0		120	12	22	4.0	3*	DC	3*	100	PG	72	GP	
2N1364	MO		90	10	75	120	60	55	4.0	1*	DC	3*	100	PG	72	GP	0.8
2N1365	BN		90	3.0		120	12	35	4.0	3*	DC	3*	100	PG	72	GP	
2N1365	MO		90	10	75	120	60	90	4.0	1*	DC	3*	100	PG	72	GP	0.8
2N1370	TI	.15	25	.15	25	25	10	80	1.0	50	DC	14	20	PG	14	AF	
2N1371	TI	.15		.15	45	45	10	80	1.0	50	DC	14	20	PG	14	AF	
2N1372	SY,TA,TI	.25		0.2	25	25	15	45	5.0	1.0	1.0	7.0	20	PG	2	GP	1.0
2N1373	SY,TA,TI	.25		0.2	45	45	25	45	5.0	1.0	1.0	7.0	20	PG	2	GP	1.0
2N1374	SY,TA,TI	.25		0.2	25	25	15	70	5.0	1.0	1.0	7.0	20	PG	2	GP	1.5
2N1375	SY,TA,TI	.25		0.2	45	45	25	70	5.0	1.0	1.0	7.0	20	PG	2	GP	1.5
2N1376	SY,TA,TI	.25		0.2	25	25	15	95	5.0	1.0	1.0	7.0	20	PG	2	GP	1.5
2N1377	SY,TA,TI	.25		0.2	45	45	25	95	5.0	1.0	1.0	7.0	20	PG	2	GP	1.5
2N1378	SY,TA,TI	.25		0.2	12	12	7.0	200	1.0	50	DC	7.0	12	PG	2	GP	2.5
2N1379	SY,TA,TI	.25		0.2	25	25	15	200	1.0	50	DC	7.0	20	PG	2	GP	2.5
2N1380	SY,TA,TI	.25		0.2	12	12	7.0					14	12	PG	2	GP	1.5
2N1381	SY,TA,TI	.25		0.2	25	25	15					14	20	PG	2	GP	1.5
2N1382	TI	0.2		0.2	25	25	15	80	5.0	1.0	1.0	14	20	PG	14	AF	1.5
2N1383	TI	0.2		0.2	25	25	15	50	5.0	1.0	1.0	14	20	PG	14	AF	1.0
2N1384	RC	.24		0.5	30	30	1.0	30	0.5	200		8.0	3.0	PG	2	SW	35
2N1395	AP,RC	.12	.24	.01		40	0.5	90	8.0	1.0	1.0	12	12	PG	7	RF	
2N1396	AP,RC	.12	.24	.01		40	0.5	90	8.0	1.0	1.0	12	12	PG	7	RF	
2N1396	SY	.12	.24	.01	40	40	0.5	110	12	1.5	1.0	12	12	PG	7	RF	75
2N1397	SP,RC	.12	.24	.01		40	0.5	90	8.0	1.0	1.0	12	12	PG	7	RF	
2N1404	SY	0.2		0.3		25	20					5.0	15	PG	4	RF	4.0
2N1404	TI	.15		0.3		25	20					5.0	15	PG	4	SW	
2N1405	TI	.075		.05	20	30	0.5	20	6.0	2.0	1.0	5.0	12	PG	7	RF	300
2N1406	TI	.075		.05	20	30	0.5	20	6.0	2.0	1.0	5.0	12	PG	7	RF	300
2N1407	TI	.075		.05	20	30	0.5	20	6.0	2.0	1.0	5.0	12	PG	7	RF	210
2N1408	GT	.12				50	10	25	5.0	1.0	1.0	7.0	5.0	PG	14	GP	
2N1409	PS	0.6	2.0	0.5	15	30	4.0	2.5	15	100	20*	.005	20	NS	2	SW	210
2N1409A	PS	0.8	2.8	0.5	15	30	4.0	2.5	15	100	20*	.005	20	NS	2	SW	210
2N1410	PS	0.6	2.0	0.5	20	45	4.0	2.5	15	100	20*	.003	20	NS	5	SW	210
2N1410A	PS	0.8	2.8	0.5	20	45	4.0	2.5	15	100	20*	.003	20	NS	5	SW	210
2N1411	PH	.025		.05	5.0	5.0	5.0	14	3.0	0.5	5.0*	5.0	5.0	PG	19	SW	
2N1412	BN,DR,MO, RC		150	15	65	100	60	37	2.0	5*	DC	8*	100	PG	43	GP	200*
2N1412 USN	DR,MO		150	15	60	100	60	35	2.0	5*	DC	8*	100	PG	43	GP	0.7
2N1413	GE,TA,TI	0.2	0.4	0.2		35	10	29	5.0	1.0	1.0	12	30	PG	4	GP	0.8
2N1413	MO	.225		0.5	40	60	25	45	1.0	100	1.0	12	30	PG	4	GP	1.3*
2N1413	SY	.225	0.4	0.5	20	35	10	30	5.0	1.0	1.0	12	30	PG	4	GP	0.8
2N1414	GE,TA,TI	0.2	0.4	0.2	25	35	10	42	5.0	1.0	1.0	12	30	PG	4	GP	1.0
2N1414	MO	.225		0.5	25	35	10	50	5.0	1.0	1.0	12	30	PG		GP	
2N1415	GE,TA,TI	0.2	0.4	0.2	25	35	10	70	5.0	1.0	1.0	12	30	PG	4	GP	1.3
2N1415	MO	.225		0.5	25	35	10	70	5.0	1.0	1.0	12	30	PG		GP	1.3
2N1417	TE	.15		.075	15	15	2.0	60	6.0	1.0	1.0	1.0	15	NS	2	GP	
2N1418	TE	.15		.025	30	30	2.0	60	6.0	1.0	1.0	10	30	NS	2	GP	
2N1420	AP,CD,FS, GI,MC,PS, RH,TI	0.6	2.0	1.0	30	60	5.0	2.5	10	50	20*	1.0	30	NS	2	SW	150
2N1420	NS	0.6	2.0	1.0	40	60	5.0	2.0			DC	1.0	30	NS	2	GP	
2N1420A	CD,PS	0.8	3.0	1.0	20	60	7.0	3.0	10	50	20*	.001	50	NS	2	SW	190

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TRANSISTOR obsolete*	MFG	MAXIMUM						GAIN				MAX	@	TYPE	BASE	USE	typ
		P_C (watts)		I_C	V_{CE}	V_{CB}	V_{EB}	typ	V_{CE}	I_C	freq	I_{CBO}	V_{CE}				f_t
		T_A	T_C	amps				h_{fe}		ma amp*	kc mc*	μa ma*					$f_{\alpha b}$*
2N1425	RC	.08		.01		24								PG	37	RF	
2N1426	RC	.08		.01		24								PG	37	RF	
2N1427	PH,SR	.025		.05	6.0	6.0	6.0	120	3.0	5.0	5*	5.0	6.0	PG	19	SW	60
2N1429	CY	0.4		0.1	6.0	6.0	6.0	25	3.0	1.0	DC	0.1	6.0	PS	2	GP	40*
2N1429	PH	0.1		.05	6.0	6.0	6.0	45	3.0	1.0	1.0	0.1	6.0	PS	2	GP	
2N1429	SR	.15		.05	6.0	6.0	6.0	45	3.0	1.0	1.0	0.1	6.0	PS	2	GP	40
2N1430	BN		50	10	40	100	1.5	50	2.0	10*	DC	100*	40	PG	72	GP	
2N1431	SY	.18		0.1	15	20	10	110	1.5	35	DC	50	20	NG	67	AF	.01
2N1432	SY	0.1		.01	38	45	0.5	60	15	2.0	10	15	45	PG	7	RF	
2N1437	KF			3.0	70	100	30	50	2.0	500	DC	2*	100	PG	50	GP	
2N1438	KF			3.0	70	100	30	50	2.0	500	DC	100	2.0	PG	50	GP	
2N1439	CY	0.4		0.1	40	50		7.0			1.0	.025	15	PS	2	GP	1.0*
2N1439	NS	0.4		0.2	50	50	50	8.0				.025	15	PS	2	GP	
2N1440	CY	0.4		0.1	40	50		17			1.0	.025	15	PS	2	GP	1.0*
2N1440	NS	0.4		0.2	50	60	60	16				.025	15	PS	2	GP	
2N1441	CY	0.4		0.1	35	50		24			1.0	.025	15	PS	2	GP	1.0*
2N1441	NS	0.4		0.2	35	50	50	27				.025	15	PS	2	GP	
2N1442	CY	0.4		0.1	30	50		45			1.0	.025	15	PS	2	GP	1.0*
2N1442	NS	0.4		0.2	30	50	50	47				.025	15	PS	2	GP	
2N1443	CY	0.4		0.1	20	50		75			1.0	.025	15	PS	2	GP	1.0*
2N1443	NS	0.4		0.2	15	50	50	78				.025	15	PS	5	GP	
2N1444	WE	.25		.25	40	60	6.0	25	5.0	250	DC	0.5	40	NS	2	SW	100
2N1450	RC,SY	.12		0.1		30	1.0	35	1.0	10	DC	10	7.0	PG	22	SW	
2N1465	KF			3.0	75	120	15	60	2.0	500	DC	100	2.0	PG	50	GP	
2N1466	KF			3.0	75	120	15	50	2.0	500	DC	100	2.0	PG	50	GP	
2N1469	CY	0.4		0.1	35	40	40	55	6.0	1.0	1.0	.025	35	PS	2	GP	2.0*
2N1469	KF,SP	.25		0.1	35	40	40	60	6.0	1.0	1.0	.025	35	PS	2	GP	5.0*
2N1473	SY	.250		0.4	35	40	15	50	0.6	400	DC	5.0	1.0	NG	4	SW	8.0*
2N1474	CY	0.4		0.1	60	60	60	30	6.0	1.0	1.0	.05	50	PS	2	GP	1.0*
2N1474	KF,SP	.25		0.1	60	60	60	26	6.0	1.0	1.0	.025	50	PS	2	GP	
2N1474A	CY	0.4		0.1	60	60		32	6.0	1.0	1.0	.05	50	PS	2	GP	2.0*
2N1474A	KF	.25		0.1	60	60	60	30	6.0	1.0	1.0	.05	50	PS	2	AF	4.0*
2N1474A	SP	.25		0.1	60	60	60	30	6.0	1.0	1.0	.025	50	PS	2	GP	
2N1475	CY	0.4		0.1	60	60		60	6.0	1.0	1.0	.05	50	PS	2	GP	1.0*
2N1475	KF	.25		0.1	60	60	60	30	6.0	1.0	1.0	.05	50	PS	2	AF	
2N1475	SP	.25		0.1	60	60	60	60	6.0	1.0	1.0	.025	50	PS	2	GP	
2N1476	CY	0.4		0.1	100	100		21	6.0	1.0	1.0	0.2	80	PS	2	GP	1.0*
2N1476	SP	.25		0.1	100	100		24	6.0	1.0	1.0	0.2	80	PS	2	GP	
2N1477	CY	0.4		0.1	100	100		47	6.0	1.0	1.0	0.2	80	PS	2	GP	1.0*
2N1477	SP	.25		0.1	100	100		45	6.0	1.0	1.0	0.2	80	PS	2	GP	2.0*
2N1478	PH	.25		.05		30	20					5.0	1.5	PG	15	GP	
2N1479	RC		5.0	1.5	40	60	12	40	4.0	400		10	30	NS	5	GP	2.5*
2N1480	RC		5.0	1.5	55	100	12	40	4.0	400		10	30	NS	5	GP	2.5*
2N1481	RC		5.0	1.5	55	100	12	70	4.0	200	DC	10	30	NS	5	GP	2.5*
2N1482	RC		5.0	1.5	55	100	12	70	4.0	200	DC	10	30	NS	5	GP	2.5*
2N1483	RC		25	3.0	60	40	12	40	4.0	750	DC	15	30	NS	5	GP	2.5*
2N1484	RC		25	3.0	55	100	12	40	4.0	750	DC	15	30	NS	5	GP	2.5*
2N1485	RC		25	3.0	55	100	12	70	4.0	750	DC	15	30	NS	5	GP	2.5*
2N1486	RC		25	3.0	55	100	12	70	4.0	750	DC	15	30	NS	5	GP	2.5*
2N1487	AF,BN		75	6.0	40	60	10	35	4.0	1.5*	DC	100	30	NS	72	GP	1.0
2N1487	RC		75	6.0	40	60	10	30	4.0	1.5*	DC	25	30	NS	72	GP	1.5*
2N1488	AF,BN		75	6.0	55	100	10	35	4.0	1.5*	DC	100	30	NS	72	GP	1.0
2N1488	RC		75	6.0	55	100	10	30	4.0	1.5*	DC	25	30	NS	72	GP	1.5*
2N1489	AF,BN		75	6.0	40	60	10	65	5.0	1.5*	DC	100	30	NS	72	GP	1.0
2N1489	RC		75	6.0	40	60	10	50	4.0	1.5*	DC	25	30	NS	72	GP	1.5*
2N1490	AF,BN		75	6.0	50	100	10	65	4.0	1.5*	DC	100	30	NS	72	GP	1.0
2N1490	RC		75	6.0	55	100	10	50	4.0	1.5*	DC	25	30	NS	72	GP	1.5*
2N1491	RC	0.5	3.0	.05		30	1.0	1.8	30	15	100*	10	12	NS	8	RF	250*
2N1492	RC	0.5	3.0	.05		60	2.0	1.8	30	15	100*	10	12	NS	8	RF	275*
2N1493	RC	0.5	3.0	.05		100	4.5	1.8	30	15	100*	10	12	NS	8	RF	300*
2N1494	MO	0.3	0.5	0.5		20	4.0	4.0	10	20*	100*	7.0	5.0	PG		SW	400
2N1494	PH		0.4	0.5	15	20	4.0	35	1.5	400	DC	7.0	5.0	PG	5	SW	
2N1494A	PH		0.4	0.5	15	20	4.0	25	0.5	200	DC	7.0	5.0	PG	5	SW	
2N1495	MO,PH	.25		0.5	25	40	4.0	25	0.5	200	DC	7.0	5.0	PG	5	SW	400
2N1496	MO	0.3	0.5	0.5		40	4.0	7.0	10	20	40*	7.0	5.0	PG		SW	400
2N1496	PH	0.5		0.5	25	40	4.0	25	0.5	200	DC	7.0	5.0	PG	5	SW	
2N1499A	PH,SR	.06		0.1	15	20	2.0	30	0.3	10	DC	3.0	5.0	PG	14	SW	200
2N1499B	SR	.075		0.1	20	30	2.0	40	0.3	10	DC	3.0	5.0	PG	14	SW	275
2N1500	PH,SR	.06		.05	12	15	2.0	20	0.5	10	DC	25	15	PG	14	SW	175
2N1501	KF		10	3.0	40	60	28	45	2.0	2*	DC	2*	60	PG	50	GP	0.5
2N1501	MH		10	3.5	40	60	28	45	2.0	2*	DC	2*	60	PG	51	GP	0.4
2N1502	KF		10	3.0	40	40	28	45	2.0	2*	DC	2*	40	PG	50	GP	0.5
2N1502	MH		10	3.5	40	40	28	45	2.0	2*	DC	2*	40	PG	51	GP	0.4
2N1504	RA		23	3.0	60	80	30					1*	80	PG	12	GP	
2N1504/10	KF			3.0	60	80	30	45	2.0	0.5	DC	100	2.0	PG	50	GP	

TRANSISTOR obsolete*	MFG	MAXIMUM						GAIN				MAX	@	TYPE	BASE	USE	typ
		P_C (watts)		I_C amps	V_{CE}	V_{CB}	V_{EB}	typ h_{fe}	V_{CE}	I_C ma amp*	freq kc mc*	I_{CBO} μa ma*	V_{CE}				f_t $f_{\alpha b}$*
		T_A	T_C														
2N1505	BN	0.8	3.0	0.5	20	50	3.0	50	28	100	DC	50	28	NS	2	GP	140
2N1505	CG,SF	0.8	3.0		40	50	3.0	15	27	100		50	28	NS	2	RF	220
2N1505	PS	0.8	3.0	1.0	20	50	3.0	1.0	20	50	70*	.007	28	NS	2	RF	200
2N1506	BN	0.8	3.0	0.5	20	60	4.0	55	28	100	DC	10	28	NS	2	GP	140
2N1506	CG,SF	0.8	3.0		40	60	4.0	25	28	100	DC	10	28	NS	2	RF	220
2N1506A	BN	0.8	3.5	0.5	50	80	5.0	55	28	100	DC	.05	28	NS	2	GP	140
2N1506	PS	0.8	3.0	1.0	20	60	4.0	20	20	50	DC	.005	28	NS	2	RF	200
2N1506A	PS	0.8	3.5	1.0	50	80	5.0	2.0	20	50	70*	.001	28	NS	2	RF	200
2N1507	CD,MH	0.6	1.0		20	60	5.0	200	10	200	DC	1.0	30	NS	5	SW	100
2N1507	TI	0.6	2.0		25	60	5.0	5.0	10	50	20*	1.0	30	NS	5	RF	100
2N1510	GE	.075		.02	55	75	8.0	30	1.0	1.0	DC	5.0	75	NG	67	GP	
2N1511	BN,RC		75	6.0	40	60	10	30	4.0	1.5*	DC	25	30	NS	43	GP	1.0*
2N1512	BN,RC		75	6.0	55	100	10	30	4.0	1.5*	DC	25	30	NS	43	GP	1.0*
2N1513	BN,RC		75	6.0	40	60	10	50	4.0	1.5*	DC	25	30	NS	43	GP	1.0*
2N1514	BN,RC		75	6.0	55	100	10	50	4.0	1.5*	DC	25	30	NS	43	GP	1.0*
2N1515	AP	.083		.01		20	0.8	100	6.0	1.0	1.0	1.5	6.0	PG	39	RF	70
2N1518	DR			25	40	50	30	37		15*	DC	4*	50	PG	43	GP	
2N1516	AP	.083		.01		20	0.8	100	6.0	1.0	1.0	1.5	6.0	PG	37	RF	70
2N1517	AP	.083		.01		20	0.8	100	6.0	1.0	1.0	1.5	6.0	PG	37	RF	70
2N1517A	AP	0.1		.01		40	0.8	150	6.0	1.0	1.0	1.5	6.0	PG	37	RF	70
2N1519	DR			25	60	80	30	37		15*	DC	4*	80	PG	43	GP	
2N1520	DR			35	40	50	30	40		15*	DC	4*	50	P	43	GP	
2N1521	DR			35	60	80	30	40		15*	DC	4*	80	PG	43	GP	
2N1522	DR			50	40	50	30	60		15*	DC	4*	50	PG	43	GP	
2N1523	DR			50	60	80	30	60		15*	DC	4*	80	PG	43	GP	
2N1524	RC	.08		.01		24	0.5	60	12	1.0	1.0	16	12	PG	22	RF	33*
2N1525	RC	.08		.01		24	0.5	60	12	1.0	1.0	16	12	PG	31	RF	33*
2N1526	RC	.08		.01		24	0.5	130	12	1.0	1.0	16	12	PG	22	RF	33*
2N1527	RC	.08		.01		24	0.5	130	12	1.0	1.0	16	12	PG	31	RF	33*
2N1529	MO		90	5.0	20	40	20	45	2.0	3*	DC	2*	25	PG	73	GP	0.7
2N1529A	MO		90	5.0	20	40	20	30	2.0	3*	DC	2*	25	PG	72	GP	0.7
2N1530	CV,MO		90	5.0	30	60	30	50	2.0	3*	DC	2*	40	PG	73	GP	0.7
2N1530A	MO		90	5.0	30	60	20	30	2.0	3*	DC	2*	40	PG	72	GP	0.7
2N1531	CV,MO		90	5.0	40	80	40	50	2.0	3*	DC	2*	55	PG	73	GP	0.7
2N1531A	MO		90	5.0	40	80	40	30	2.0	3*	DC	2*	55	PG	72	GP	0.7
2N1532	CV,MO		90	5.0	50	100	50	50	2.0	3*	DC	2*	65	PG	73	GP	0.7
2N1532A	MO		90	5.0	50	100	50	30	2.0	3*	DC	2*	65	PG	72	GP	0.7
2N1533	CV,MO		90	5.0	60	120	60	50	2.0	3*	DC	2*	80	PG	73	GP	0.7
2N1534	DV,DR,MO		90	5.0	20	40	20	52	2.0	3*	DC	2*	40	PG	73	GP	0.7
2N1534A	MO		90	5.0	20	40	20	50	2.0	3*	DC	2*	25	PG	72	GP	0.7
2N1535	CV,DR,MO		90	5.0	30	60	30	52	2.0	3*	DC	2*	60	PG	73	GP	0.7
2N1535A	MO		90	5.0	30	60	20	50	2.0	3*	DC	2*	40	PG	72	GP	0.7
2N1536	DR,MO		90	5.0	40	80	40	52	2.0	3*	DC	2*	70	PG	73	GP	0.7
2N1536A	MO		90	5.0	40	80	40	50	2.0	3*	DC	2*	55	PG	72	GP	0.7
2N1537	CV,MO		90	5.0	50	100	50	52	2.0	3*	DC	2*	65	PG	73	GP	0.7
2N1537A	MO		90	5.0	50	100	50	50	2.0	3*	DC	2*	65	PG	72	GP	0.7
2N1538	CV,MO		90	5.0	60	120	60	52	2.0	3*	DC	2*	80	PG	73	GP	0.7
2N1539	CV,DR		90	5.0	20	40	12	75	2.0	3*	DC	2*	25	PG	72	GP	0.2
2N1539	MO		90	5.0	20	40	20	75	2.0	3*	DC	2*	25	PG	72	GP	0.2
2N1539	TI		150	5.0		40	20	70	2.0	3*	DC	20*	40	PG	73	GP	0.4
2N1539A	MO		90	5.0	20	40	20	70	2.0	3*	DC	2*	25	PG	72	GP	0.2
2N1540	CV,DR		90	5.0	30	60	12	75	2.0	3*	DC	2*	40	PG	72	GP	0.2
2N1540	MO		90	5.0	30	60	30	75	2.0	3*	DC	2*	40	PG	72	GP	0.2
2N1540	TI		150	5.0		60	30	70	2.0	3*	DC	20*	60	PG	73	GP	0.4
2N1540A	MO		90	5.0	30	60	30	70	2.0	3*	DC	2*	40	PG	72	GP	0.2
2N1541	CV,DR		90	5.0	40	80	12	75	2.0	3*	DC	2*	55	PG	72	GP	0.2
2N1541	MO		90	5.0	40	80	40	75	2.0	3*	DC	2*	55	PG	72	GP	0.2
2N1541	TI		150	5.0		80	40	70	2.0	3*	DC	20*	80	PG	73	GP	0.4
2N1541A	MO		90	5.0	40	80	40	70	2.0	3*	DC	2*	55	PG	72	GP	0.2
2N1542	CV,DR		90	5.0	50	100	12	75	2.0	3*	DC	2*	65	PG	72	GP	0.2
2N1542	MO		90	5.0	50	100	50	75	2.0	3*	DC	2*	65	PG	72	GP	0.2
2N1542	TI		150	5.0		100	50	70	2.0	3*	DC	20*	100	PG	72	GP	0.4
2N1542A	MO		90	5.0	50	100	50	70	2.0	3*	DC	2*	65	PG	72	GP	0.2
2N1543	CV,DR		90	5.0	60	120	12	75		3*	DC	2*	80	PG	72	GP	0.2
2N1543	MO		90	5.0	60	120	60	75	2.0	3*	DC	2*	80	PG	72	GP	0.2
2N1543	TI		150	5.0		120	60	70	2.0	3*	DC	20*	120	PG	73	GP	0.4
2N1544	CV,MO		90	5.0	20	40	20	120	2.0	3*	DC	2*	25	PG	72	GP	0.2
2N1544	DR		90	5.0	20	40	12	110	2.0	3*	DC	2*	25	PG	72	GP	0.2
2N1544A	MO		90	5.0	20	40	20	115	2.0	3*	DC	2*	25	PG	72	GP	0.2
2N1545	CV,MO		90	5.0	30	60	30	130	2.0	3*	DC	2*	40	PG	72	GP	0.2
2N1545	DR		90	5.0	30	60	12	110	2.0	3*	DC	2*	40	PG	72	GP	0.2
2N1545A	MO		90	5.0	30	60	30	115	2.0	3*	DC	2*	40	PG	72	GP	0.2
2N1546	CV,MO		90	5.0	40	80	40	130	2.0	3*	DC	2*	55	PG	72	GP	0.2
2N1546	DR		90	5.0	40	80	12	110	2.0	3*	DC	2*	55	PG	72	GP	0.2
2N1546A	MO		90	5.0	40	80	40	115	2.0	3*	DC	2*	55	PG	72	GP	0.2

TRANSISTOR obsolete*	MFG	MAXIMUM P_C (watts) T_A	MAXIMUM P_C (watts) T_C	MAXIMUM I_C amps	MAXIMUM V_{CE}	MAXIMUM V_{CB}	MAXIMUM V_{EB}	GAIN typ h_{fe}	GAIN V_{CE}	GAIN I_C ma amp*	GAIN freq kc mc*	MAX I_{CBO} μa ma*	@ V_{CE}	TYPE	BASE	USE	typ f_t $f_{\alpha b}$*
2N1547	CV,MO		90	5.0	50	100	50	130	2.0	3*	DC	2*	65	PG	72	GP	0.2
2N1547	DR		90	5.0	50	100	12	110	2.0	3*	DC	2*	65	PG	72	GP	0.2
2N1547A	MO		90	5.0	50	100	50	115	2.0	3*	DC	2*	65	PG	72	GP	0.2
2N1548	CV,MO		90	5.0	60	120	60	130	2.0	3*	DC	2*	80	PG	72	GP	0.2
2N1548	DR		90	5.0	60	120	12					2*	80	PG	72	GP	0.2
2N1549	CV		90	5.0	20	40	20	30	2.0	10*	DC	3*	25	PG	73	GP	.65
2N1549	MO		90	15	20	40	20	30	2.0	10*	DC	3*	25	PG	72	GP	.65
2N1549A	BN,MO		90	15	20	40	20	20	2.0	10*	DC	3*	25	PG	72	GP	.65
2N1550	CV		90	5.0	30	60	30	20	2.0	10*	DC	3*	40	PG	73	GP	.65
2N1550	MO		90	15	30	60	30	25	2.0	10*	DC	3*	40	PG	72	GP	.65
2N1550A	BN,MO		90	15	30	60	30	20	2.0	10*	DC	3*	40	PG	72	GP	.65
2N1551	CV		90	5.0	40	80	40	10	2.0	10*	DC	3*	55	PG	73	GP	.65
2N1551	MO		90	15	40	80	40	25	2.0	10*	DC	3*	55	PG	72	GP	.65
2N1551A	BN,MO		90	15	40	80	40	20	2.0	10*	DC	3*	50	PG	72	GP	.65
2N1552	CV		90	5.0	50	100	50	10	2.0	10*	DC	3*	60	PG	73	GP	.65
2N1552	MO		90	15	50	100	50	20	2.0	10*	DC	3*	65	PG	72	GP	.65
2N1552A	BN,MO		90	15	50	100	50	20	2.0	10*	DC	3*	60	PG	72	GP	.65
2N1553	CV		90	5.0	20	40	20	55	2.0	10*	DC	3*	25	PG	73	GP	0.2
2N1553	MO		90	15	20	40	20	60	2.0	10*	DC	3*	25	PG	73	GP	0.2
2N1553A	MO		90	15	20	40	20	42	2.0	10*	DC	3*	25	PG	72	GP	0.2
2N1554	CV		90	5.0	30	60	30	55	2.0	10*	DC	3*	40	PG	73	GP	0.2
2N1554	MO		90	15	30	60	30	60	2.0	10*	DC	3*	40	PG	72	GP	0.2
2N1554A	MO		90	15	30	60	30	42	2.0	10*	DC	3*	40	PG	72	GP	0.2
2N1555	CV		90	5.0	40	80	40	55	2.0	10*	DC	3*	55	PG	73	GP	0.2
2N1555	MO		90	15	40	80	40	60	2.0	10*	DC	3*	55	PG	72	GP	0.2
2N1555A	MO		90	15	40	80	40	42	2.0	10*	DC	3*	55	PG	72	GP	0.2
2N1556	CV,MO		90	15	50	100	50	55	2.0	10*	DC	3*	65	PG	72	GP	0.2
2N1556A	MO		90	15	50	100	50	42	2.0	10*	DC	3*	65	PG	72	GP	0.2
2N1557	CV		90	5.0	20	40	20	95	2.0	10*	DC	3*	25	PG	73	GP	0.2
2N1557	MO		90	15	20	40	20	80	2.0	10*	DC	3*	25	PG	72	GP	0.2
2N1557A	MO		90	15	20	40	20	70	2.0	10*	DC	3*	25	PG	72	GP	0.2
2N1558	CV		90	5.0	30	60	30	95	2.0	10*	DC	3*	40	PG	73	GP	0.2
2N1558	MO		90	15	30	60	30	80	2.0	10*	DC	3*	40	PG	72	GP	0.2
2N1558A	MO		90	15	30	60	30	70	2.0	10*	DC	3*	40	PG	72	GP	0.2
2N1559	CV		90	5.0	40	80	40	95	2.0	10*	DC	3*	55	PG	73	GP	0.2
2N1559	MO		90	15	40	80	40	80	2.0	10*	DC	3*	55	PG	72	GP	0.2
2N1559A	MO		90	15	40	80	40	70	2.0	10*	DC	3*	55	PG	72	GP	0.2
2N1560	CV,MO		90	15	50	100	50	80	2.0	10*	DC	3*	65	PG	72	GP	0.2
2N1560A	MO		90	15	50	100	50	70	2.0	10*	DC	3*	65	PG	72	GP	0.2
2N1561	MO	.25	3.0	.25	25	25	3.0	10	10	50	160*	10	10	PG	14	RF	500
2N1562	MO	.25	3.0	.25	25	25	2.0	9.0	10	50	160*	10	10	PG	14	RF	450
2N1564	AM,CG,PS	0.6	1.2	.05	60	80	5.0	35	5.0	5.0	1.0	.01	40	NS	2	SW	100
2N1564	NS,TI	0.6	2.0	.05	60	60	5.0	30	5.0	5.0	1.0	1.0	40	NS	5	GP	120
2N1565	AM,CG,PS	0.6	1.2	.05	60	80	5.0	70	5.0	5.0	1.0	.01	40	NS	2	SW	100
2N1565	NS,TI	0.6	1.2		60	60	5.0	75	5.0	5.0	1.0	1.0	40	NS	5	GP	130
2N1566	AM,PS	0.6	1.2	.05	60	80	5.0	140	5.0	5.0	1.0	.01	40	NS	2	SW	100
2N1566	NS,TI	0.6	1.2	.05	60	60	5.0	140	5.0	5.0	1.0	1.0	40	NS	5	GP	150
2N1566A	TI	0.6		0.1	60	80	8.0	140	5.0	5.0	1.0	0.5	40	NS	5	GP	
2N1572	AM,CG	0.6	1.2		80	125	5.0	35	5.0	5.0	1.0	1.0	40	NS	5	GP	120
2N1572	TI	0.6	1.2	.05	80	80	5.0	35	5.0	5.0	1.0	1.0	40	NS	2	GP	120
2N1573	AM,CG	0.6	1.2		80	125	5.0	70	5.0	5.0	1.0	1.0	40	NS	5	GP	120
2N1573	TI	0.6	1.2	.05	80	80	5.0	60	5.0	5.0	1.0	1.0	40	NS	2	GP	140
2N1574	AM	0.6	1.2		80	125	5.0	140	5.0	5.0	1.0	1.0	40	NS	5	GP	
2N1574	TI	0.6	1.2	.05	80	80	5.0	130	5.0	5.0	1.0	1.0	40	NS	2	GP	150
2N1605	GI,TI	.15	0.3	0.3	24	25	12	135	.25	20	DC	5.0	12	NG	4	SW	14*
2N1605	SY,TA	.15		0.2	24	25	12	55	.25	20	DC	5.0	12	NG	4	SW	4.0
2N1605A	RC	0.2		0.1	40	40	12	40	0.2	24	DC	10	40	NS	2	SW	6.0*
2N1605A	SY	0.2		0.2	40	40	12	55	.25	20	DC	10	40	NS	4	SW	4.0
2N1609	DR			1.5	60	80	40	40	10	100	1.0			PG	71	GP	
2N1610	DR			1.5	60	80	40	52	10	100	1.0			PG	71	GP	
2N1611	DR			1.5	40	60	20	40	10	100	1.0			PG	71	GP	
2N1612	DR			1.5	40	60	20	55	10	100	1.0			PG	71	GP	
2N1613	AM	0.5	3.0	1.0	40	75	7.0	65	5.0	1.0	1.0	.01	60	NS	5	SW	
2N1613	AM,AP,CD, FS,PS,RC, SF,SY,TI	0.8	3.0	1.0	40	75	7.0	90	10	150	1.0	.01	60	NS	2	RF	120
2N1613	GE	0.1	4.0		28	60	7.0	70	10	10	DC	.025	40	NS	2	SW	100
2N1614	GE	.24		0.3		65	12	25	5.0	1.0	1.0	25	65	PG	45	SW	0.3
2N1616	AF,TE	3.5	60	5.0	60	60	8.0	40	12	2*	DC	100	60	NS	59	GP	
2N1616	SF		85	5.0	60	60	8.0	20	30	300	1*	100	60	NS	48	GP	15
2N1617	AF	3.5	60	5.0	70	80	8.0	55	12	2*	DC	100	80	NS	59	GP	
2N1617	SF		85	5.0	80	80	8.0	20	30	300	1*	100	80	NS	48	GP	15
2N1617	TE	3.5	60	5.0	80	80	8.0	25	12	2*	DC	1.0	80	NS	59	GP	15*
2N1618	AF	3.5	60	5.0	80	100	8.0	55	12	2*	DC	100	100	NS	59	GP	
2N1618	SF		85	5.0	100	100	8.0	20	30	300	1*			NS	48	GP	15

TRANSISTOR obsolete*	MFG	MAXIMUM						GAIN				MAX	@	TYPE	BASE	USE	typ
		P_C (watts)		I_C	V_{CE}	V_{CB}	V_{EB}	typ	V_{CE}	I_C	freq	I_{CBO}	V_{CE}				f_t
		T_A	T_C	amps				h_{fe}		ma amp*	kc mc*	μa ma*					$f_{\alpha b}$*
2N1618	GE,TE	3.5	60	5.0	100	100	8.0	25	12	2*	DC	10*	100	NS	59	GP	15*
2N1620	TE	3.5	60	5.0	100	100	8.0	25	12	2*	DC			NS	77	GP	15*
2N1623	CY	0.4		0.1	20	50		25		2*	DC	1.0	30	PS	2	GP	0.3*
2N1631	RC	.08		.01		34	0.5	80	12	1.0	1.0	16	12	PG	31	RF	45*
2N1632	RC	.08		.01		34	0.5	80	12	1.0	1.0	16	12	PG	22	RF	45*
2N1633	RC	.08		.01		34	0.5	75	12	1.0	1.0	15	12	PG	31	RF	40*
2N1634	RC	.08		.01		34	0.5	75	12	1.0	1.0	16	12	PG	22	RF	40*
2N1635	RC	.08		.01		34	0.5	75	12	1.0	1.0	16	12	PG	31	RF	45*
2N1636	RC	.08		.01		34	0.5	75	12	1.0	1.0	16	12	PG	22	RF	45*
2N1637	RC	.08		.01		34	1.5	80	12	1.0	1.0	5.0	12	PG	22	RF	45*
2N1638	RC	.08		.01		34	0.5	75	12	1.0	1.0	7.0	12	PG	22	RF	40*
2N1639	RC	.08		.01		34	0.5	75	12	1.0	1.0	7.0	12	PG	22	RF	40*
2N1640	CY	0.4		0.1	20	30	30	11	6.0	1.0	1.0	.01	30	PS	2	SW	0.4
2N1641	CY	0.4		0.1	10	30	30	15	6.0	1.0	1.0	.01	30	PS	2	SW	0.4
2N1642	CY	0.4		0.1	6.0	30	30	23	6.0	1.0	1.0	0.1	30	PS	2	SW	0.4
2N1643	CY	0.4		0.1	25	25	20	17	6.0	1.0	DC	.001	12	PS	2	GP	0.7*
2N1643	KF	.25		.05	25	25	20	18	6.0	1.0	1.0	.001	12	PS	2	GP	0.7*
2N1644	CD	0.6				60	5.0	80				1.0	60	NS	5	GP	
2N1645	WE	1.0	6.0	0.3	20	35	1.0	15	10	50	100*	15	20	PG	5	RF	600
2N1646	SY	.15		.05	12	15	2.0	35	0.4	10	DC	3.0	5.0	PG	5	SW	
2N1647	TE	3.5	40	1.5	60	80	6.0	20	10	1*	DC	100	60	NS	60	GP	10*
2N1648	TE	3.5	40	1.5	80	120	6.0	20	10	1*	DC	100	60	NS	60	GP	10*
2N1649	TE	3.5	40	1.5	60	80	6.0	36	10	1*	DC	100	60	NS	60	GP	10*
2N1650	TE	3.5	40	1.5	80	120	6.0	36	10	1*	DC	100	60	NS	60	GP	10*
2N1651	BN		100	25	60	60		50	6.0	500	30	5*	40	PG	72	GP	
2N1652	BN		100	25	100	100		50	6.0	500	30	5*	80	PG	72	GP	
2N1653	BN		100	25	120	120		50	6.0	500	30	5*	100	PG	72	GP	
2N1655	CY	0.4		0.1	125	150		31			DC	1.0	80	PS	2	GP	0.4*
2N1656	CY	0.4		0.1	125	150		32			DC	1.0	80	PS	2	GP	0.4*
2N1658	MH		15	3.0	50	80	40	60	2.0	200	DC	1.0	30	PG	30	GP	0.7
2N1659	MH		15	3.0	40	60	40	60	2.0	200	DC	25	2.0	PG	30	GP	0.7
2N1666	AP	30		4.0	60			45		1*	DC	100	0.5	PG	72	SW	.15
2N1667	AP	30		4.5	32			120		1*	DC	100	0.5	PG	72	SW	.15
2N1668	AP	30		4.5	32			60		1*	DC	100	0.5	PG	72	SW	.15
2N1669	AP	30		4.5	32			85		1*	DC	100	0.5	PG	72	SW	.15
2N1670	GI	.12				100		5.0	5.0	5.0	2*	7.0	5.0	PG	14	SW	
2N1673	SY	.08		.01		35	0.5	100	9.0	9.0	1.0	50	40	PG	7	RF	
2N1675	WE		100	10	60	100	5.0	50	10	1*	DC	1.0	5.0	NS	54	GP	50
2N1676	PH,SR	0.1		.05	4.5	4.5	4.5	10	3.0	1.0	4*	0.1	4.5	PS	2	GP	42
2N1677	PH,SR	0.1		.05	4.5	4.5	4.5	50	3.0	1.0	1.0	0.1	4.5	PS	2	GP	32
2N1678	GI	.12				60	4.0	40	.25	20	DC	5.0	10	PG	14	SW	40*
2N1681*	TS	.18	.035	0.2	15	30	20					3.0	2.0	P	2	SW	
2N1683	RC,SR,TI	.15	0.3	0.1	12	13	4.0	130	3.0	10	1.0	3.0	6.0	PG	2	SW	150
2N1684	SY	0.1		0.2	18	25	12					50	12	PG	4	SW	4.0
2N1692	MO	.35	3.0	0.5	25	25	3.0	10	10	50	160*	10	10	PG		RF	500
2N1693	MO	.35	3.0	0.5	25	25	2.0	9.0	10	50	160*	10	10	PG		RF	450
2N1694	GE	.075		25	20	20	10	25	1.0	2.0	DC	1.5	15	NG	67	GP	1.5
2N1699	SY	0.1	0.3	.01	30	40	0.5	100	12	1.5	1.0	12	12	PG	2	RF	70
2N1700	RC		5.0	1.0	40	60	6.0	40	4.0	5.0	1.0	75	30	NS	2	GP	1.2*
2N1701	RC		25	2.5	40	60	6.0	55	4.0	300	DC	100	30	NS	22	GP	1.0*
2N1702	RC		75	5.0	40	60	6.0	45	4.0	800	DC	200	30	NS	72	GP	1.0*
2N1703	RC		75	5.0	40	60	6.0	45	4.0	800	DC	200	30	NS	43	GP	1.0*
2N1704	NS	0.5			45	45	6.0					0.1		NS	2	GP	
2N1705*	TS	0.2		0.4	10	18	5.0	110	6.0	1.0	1.0	10	10	PG	2	AF	
2N1706*	TS	0.2		0.4	15	25	5.0	90	5.0	10	1.0	10	25	PG	2	AF	
2N1707*	TS	0.2		0.4	20	30	10	100	5.0	10	1.0	15	25	PG	2	AF	
2N1708	FS,RC	0.3	1.0	0.2	12	25	3.0	5.0	10	10	100*	.025	15	NS	2	SW	500
2N1709	CG,PS	2.0	13	2.0	30	75	4.0	5.0	28	268	70*	10	28	NS	14	RF	210
2N1710	CG,PS	2.0	13	2.0	30	60	3.0	5.0	28	268	70*	50	28	NS	14	RF	210
2N1711	AM,RC	0.5	3.0	1.0	35	75	7.0	125	5.0	1.0	1.0	.01	60	NS	5	SW	
2N1711	AP,HU	0.8	3.0	1.0	30	60	7.0	230	10	150	DC	.01	60	NS	2	RF	120
2N1711	AM,CD,FS,	0.8	3.0	1.0	28	75	7.0	205	10	5.0	1.0	.01	60	NS	2	RF	120
2N1711	SF,TI																
2N1711	GE	0.1	4.0		28	60	7.0	185	10	10	DC	.025	40	NS	2	SW	140
2N1711	PS	0.8	3.0	1.0	35	75	7.0	180	10	5.0	1.0	.01	60	NS	2	SW	190
2N1714	TI	0.8	10	.75	60		6.0	3.0	10	100	16*			NS	5	RF	30
2N1715	TI	0.8	10	.75	100		6.0	3.0	10	100	16*			NS	5	RF	30
2N1716	TI	0.8	10	.75	60		6.0	3.0	10	100	16*			NS	5	RF	30
2N1717	TI	0.8	10	.75	100		6.0	3.0	10	100	16*			NS	5	RF	30
2N1718	BN		10	1.0	60	90	6.0	40	5.0	200	DC	50	50	NS		GP	40
2N1718	TI	2.0	10	.75	60		6.0	3.0	10	100	16*			NS	57	RF	30
2N1719	BN		10	1.0	100	150	6.0	80	5.0	200	DC	50	90	NS		GP	40
2N1719	TI	2.0	10	.75	100		6.0	3.0	10	100	16*			NS	57	RF	30
2N1720	BN		10	1.0	60	90	6.0	40	5.0	200	DC	50	50	NS		GP	40
2N1720	TI	2.0	10	.75	60		6.0	3.0	10	100	16*			NS	57	RF	30

TRANSISTOR obsolete*	MFG	MAXIMUM						GAIN			MAX	@	TYPE	BASE	USE	typ
		P_C (watts)		I_C	V_{CE}	V_{CB}	V_{EB}	typ h_{fe}	V_{CE}	I_C	freq	I_{CBO}	V_{CE}				f_t
		T_A	T_C	amps						ma amp*	kc mc*	μa ma*						$f_{\alpha b}$*
2N1721	BN		10	1.0	100	150	6.0	80	5.0	200	DC	50	90	NS		GP	40
2N1721	TI	2.0	10	.75	100		6.0	3.0	10	100	16*			NS	57	RF	30
2N1722	TI	3.0	50	5.0	80		10	3.0	15	500	10*			NS	57	RF	20
2N1723	TI	3.0	50	3.0	80	120	10	90	15	2*	DC	100	3.0	NS	78	GP	25
2N1724	GE,TI	3.0	50	5.0	80		10	3.0	15	500	10*			NS	57	RF	20
2N1725	GE,TI	3.0		5.0	80	120	10	90	15	2*	DC	100	3.0	NS	59	GP	20
2N1726	PH,SR	.06		.05	15	20	1.0	150	6.0	1.0	DC	10	5.0	PG	2	RF	175
2N1727	PH,SR	.06		.05	15	20	0.5	200	6.0	1.0	DC	10	5.0	PG	2	RF	170
2N1728	PH,SR	.06		.05	15	20	0.5	120	6.0	1.0	DC	10	5.0	PG	2	RF	170
2N1742	PH,SR	.06		.05		20	0.5	33			DC	10	10	PG	14	SW	1000
2N1743	PH,SR	.06		.05		20	0.5	33			DC	10	10	PG	14	RF	
2N1744	PH,SR	.06		.05		20	0.5	33			DC	10	10	PG	14	RF	
2N1745	PH,SR	.06		.05	15	20	0.5	70	10	2.0	DC	10	10	PG	2	SW	750
2N1746	PH,SR	.06		.05	15	20	1.0	70	6.0	1.0	DC	10	10	PG	2	RF	170
2N1748	PH	.06		.05		25	1.0	45	6.0	1.0	1.0	10	12	PG	14	RF	115
2N1748A	PH,SR	.06		.05	20	25	1.0	70	6.0	1.0	DC	10	12	PG	2	SW	200
2N1747	PH,SR	.06		.05	15	20	0.5	70	6.0	1.0	DC	10	10	PG	2	SW	300
2N1749	PH	.075		.01		40	1.0	45	6.0	1.0	1.0	10	12	PG	14	RD	115
2N1750	PH	.015		.005	6.0	14						50	14	PG	19	GP	
2N1751	BN		100	25	80	80	2.5	50	6.0	500	30	5*	80	PG	72	GP	
2N1752	PH	.06		.05	9.0	12	2.0	250	6.0	1.0		10	10	PG	2	RF	
2N1754	PH,SR	.05		0.1	10	13	2.0	20	.25	10	DC	100	13	PG	14	SW	150
2N1768	RC		40	3.0	40	60	12	70*	4.0	750	DC	15	30	NS	98	GP	1.3*
2N1769	RC		40	3.0	55	100	12	70*	4.0	750	DC	15	30	NS	98	GP	1.3*
2N1781	SY	0.1		0.1	18	25	12	60	25	20	DC	5.0	12	NG	4	SW	4.0
2N1785	PH,SR	.045		.05	7.0	10	1.0	150	6.0	1.0	DC	10	5.0	PG	2	RF	110
2N1786	PH,SR	.045		.05	7.0	10	0.5	250	6.0	1.0	DC	10	5.0	PG	2	RF	110
2N1787	PH,SR	.045		.05	12	15	0.5	120	6.0	1.0	DC	10	5.0	PG	2	RF	110
2N1788	PH,SR	.06		.05	25	35	1.0	150	12	1.0	DC	5.0	12	PG	2	RF	175
2N1789	PH,SR	.06		.05	25	35	0.5	200	12	1.0	DC	7.0	12	PG	2	RF	175
2N1790	PH,SR	.06		.05	25	35	0.5	120	12	1.0	DC	7.0	12	PG	2	RF	170
2N1808	TI	.15	0.3	0.3	25	25	20	125	.25	20	DC	5.0	15	NG	4	SW	14*
2N1809	WS		250	30	50	50	15	35	12	2.5*	1.0	1.5*	50	NS	58	SW	0.8
2N1810	WS		250	30	100	100	15	35	12	2.5*	1.0	1.5*	100	NS	58	SW	0.8
2N1811	WS		250	30	150	150	15	35	12	2.5*	1.0	1.5*	150	NS	58	SW	0.8
2N1812	WS		250	30	200	200	15	35	12	2.5*	1.0	1.5*	200	NS	58	SW	0.8
2N1813	WS		250	30	250	250	15	35	12	5*	1.0	1.5*	250	NS	58	SW	0.8
2N1814	WS		250	30	300	300	15	35	12	5*	1.0	1.5*	300	NS	58	SW	0.8
2N1816	WS		250	30	50	50	15	27	12	4*	1.0	1.5*	50	NS	58	SW	0.8
2N1817	WS		250	30	100	100	15	27	12	4*	1.0	1.5*	100	NS	58	SW	0.8
2N1818	WS		250	30	150	150	15	27	12	4*	1.0	1.5*	150	NS	58	SW	0.8
2N1819	WS		250	30	200	200	15	27	12	4*	1.0	1.5$	200	NS	58	SW	0.8
2N1823	WS		250	30	50	50	15	28	12	5*	1.0	1.5*	50	NS	58	SW	0.8
2N1824	WS		250	30	100	100	15	28	12	5*	1.0	1.5*	100	NS	50	SW	0.8
2N1825	WS		250	30	150	150	15	28	12	5*	1.0	1.5*	150	NS	58	SW	0.8
2N1826	WS		250	30	200	200	15	28	12	5*	1.0	1.5*	200	NS	58	SW	0.8
2N1830	WS		250	30	50	50	15	35	12	5*	1.0	1.5*	50	NS	58	SW	0.8
2N1831	WS		250	30	100	100	15	35	12	5*	1.0	1.5*	100	NS	58	SW	0.8
2N1832	WS		250	30	150	150	15	35	12	5*	1.0	1.5*	150	NS	58	SW	0.8
2N1833	WS		250	30	200	200	15	35	12	5*	1.0	1.5*	200	NS	58	SW	.014
2N1837	PS	0.6	2.0	0.5	30	80	8.0	7.0	10	50	20*	.05	30	NS	2	SW	
2N1837A	PS	0.8	2.8	0.5	30	80	8.0	7.0	10	50	20*	.05	30	NS	2	SW	210
2N1838	PS	0.6	2.0	0.5	20	45	5.0	4.5	10	50	20*	.015	30	NS	2	GP	190
2N1839	PS	0.6	2.0	0.5	20	45	4.5	4.5	10	50	20*	.015	30	NS	2	GP	170
2N1840	PS	0.6	2.0	0.5	15	25	0.5	4.5	10	50	20*	30	10	NS	2	GP	170
2N1841	WE	2.0	12	2.0	50	75	6.0	40	10	500	1.0	0.1	10	NS	5	GP	100
2N1853	RC	.15		0.1	6.0	18	2.0	50	0.4	6.0	DC	4.2	15	PG	2	SW	
2N1854	RC	.15		0.1	6.0	18	2.0	60	0.5	20	DC	4.2	15	PG	2	SW	60
2N1864	PH,SR	.06		.05	15	20	0.5	80	6.0	1.0	DC	10	5.0	PG	2	RF	110
2N1865	PH,SR	.06		.05	15	20	0.5	70	6.0	1.0	DC	10	10	PG	2	SW	220
2N1866	PH,SR	.06		.05	25	35	0.5	70	12	1.0	DC	10	10	PG	2	SW	210
2N1867	PH.SR	.06		.05	25	35	0.5	50	12	1.0	DC	10	10	PG	2	RF	210
2N1868	PH,SR	.06		.05	15	20	0.5	10	10	20	DC	10	10	PG	2	RD	500
2N1889	AM,AP,CD, HU,TI	0.8	3.0		60	100	7.0	95	10	5.0	1.0	.01	75	NS	2	RF	100
2N1890	AM,AP,CD, FS,GE, HU,TI	0.8	3.0		60	100	7.0	235	10	5.0	1.0	.01	75	NS	2	RF	20
2N1893	AM,AP,CD FS,GI,HU PS,RC,SF,	0.8	3.0	3.5	80	120	7.0	90	10	5.0	1.0	.01	90	NS	2	RF	120
2N1893	GE	0.1	4.0		80	100	7.0	70	10	10	DC	.025	40	NS	2	SW	100
2N1893A	PS	0.8	3.0	0.5	80	140	7.0	30	10	5.0	1.0	.001	90	NS	2	SW	190
2N1899	PS		125	10	50	140	5.0	5.0	10	3*	10*	10*	60	NS	55	RF	100
2N1900	PS		125	10	50	140	5.0	5.0	10	3*	10*	10*	60	NS	55	SW	100

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TRANSISTOR obsolete*	MFG	MAXIMUM P_C (watts) T_A	MAXIMUM P_C (watts) T_C	MAXIMUM I_C amps	MAXIMUM V_{CE}	MAXIMUM V_{CB}	MAXIMUM V_{EB}	GAIN typ h_{fe}	GAIN V_{CE}	GAIN I_C ma amp*	GAIN freq kc mc*	MAX I_{CBO} μa ma*	@ V_{CE}	TYPE	BASE	USE	typ f_t $f_{\alpha b}$*
2N1901	PS		125	10	50	140	5.0	5.0	10	3*	10*	10*	60	NS	55	SW	100
2N1902	PS		125	10	50	140	5.0	5.0	10	3*	10*	10*	60	NS	55	RF	100
2N1903	PS		125	10	50	140	5.0	5.0	10	3*	10*	10*	60	NS	55	RF	100
2N1904	PS		125	10	50	140	5.0	5.0	10	3*	10*	10*	60	NS	55	RF	100
2N1905	RC		50	10	40	60	1.0	50	2.0	1.0	DC	150	40	PG	72	GP	7.5
2N1906	RC		50	10	40	100	1.0	125	2.0	5*	DC	150	40	PG	72	GP	7.5
2N1907	TI		150	20	40	100	1.5					10*	100	PG	59	SW	
2N1908	TI		150	20	50	130	5.0					10*	130	PG	59	SW	
2N1917	CY	0.4		0.1	8.0		25	25			DC	.003	4.5	PS	2	GP	32*
2N1917	KF	.25		.05	8.0	25	25	40	6.0	1.0	1.0	.003	4.5	PS	2	AF	30
2N1917	SP	.25		.05	8.0	25	25	50	6.0	1.0	1.0	.05	4.5	PS	2	GP	
2N1918	CY	0.4		0.1	8.0		25	25			DC	.003	4.5	PS	2	GP	18*
2N1918	KF	.25		.05	8.0	25	25	40	6.0	1.0	1.0	.003	4.5	PS	2	AF	
2N1918	SP	.25		.05	8.0	25	25	50	6.0	1.0	1.0	.05	4.5	PS	2	GP	
2N1919	CY	0.4		0.1	18		40							PS	2	GP	3.0*
2N1919	SP	.25		.05	18	40	40							PS	2	GP	
2M1920	CY	0.4		0.1	18		40							PS	2	GP	3.5*
2N1920	SP	.25		.05	18	40	40							PS	2	GP	
2N1921	CY	0.4		0.1	50		50							PS	2	GP	3.0*
2N1921	SP	.25		.05	50	50	50							PS	2	GP	
2N1922	CY	0.4		0.1	80		80							PS	2	GP	3.0*
2N1922	KF,SP	.25		.05	80	80	80							PS	2	GP	2.0
2N1924	CG,GE,MO, TA,TI	.225	.45	0.5	40	60	25	49	5.0	1.0	1.0	10	45	PG	4	AF	0.8
2N1925	CG,GE,MO, TA,TI	.225	.45	0.5	40	60	25	68	5.0	1.0	1.0	10	45	PG	4	AF	0.9
2N1926	CG,GE,MO, TA,TI	.225	.45	0.5	40	60	25	90	5.0	1.0	1.0	10	45	PG	4	AF	1.0
2N1926																	
2N1958	SY	0.6	2.0	0.5	30	60	5.0	40	10	150	DC	0.5	30	NS	4	SW	200
2N1958A	SY	0.6	2.0	1.0	30	60	5.0	40	10	150	DC	0.2	30	NS	5	SW	200
2N1958/18	SY	0.3	1.0	0.5		60	5.0					0.5	30	NS	5	SW	200
2N1959	SY	0.6	2.0	0.5	30	60	5.0	80	10	150	DC	0.5	30	NS	4	SW	200
2N1959/18	SY	0.3	1.0	0.5	30	60	5.0	80	10	150	DC	0.5	30	NS	5	SW	200
2N1959A	SY	0.6	2.0	1.0		60	5.0					0.2	30	NS	5	SW	200
2N1960	SY	.15	1.0	0.2	15	15	2.5	40	.22	10	DC	3.0	5.0	PG	2	SW	
2N1961	SY	.15	1.0	0.2	12	12	1.0	40	.25	10	DC	3.0	5.0	PG	2	SW	
2N1962	SY	0.4	3.5	0.2	20	40	5.0	80	1.0	10	DC	.25	25	NS	5	SW	300
2N1963	SY	0.4	3.5	0.2	15	30	5.0	40	1.0	10	DC	.25	25	NS	2	SW	300
2N1964	SY	0.4	3.5	0.5	32	60	5.0	60	10	150	DC	0.5	30	NS	5	SW	200
2N1965	SY	0.4	3.5	0.5	32	60	5.0	120	10	150	DC	0.5	30	NS	4	SW	200
2N1969	SY	.15		0.4	15	30	20	110	.35	10	DC	25	30	PG	2	SW	10
2N1970	DR		150	15	50	100	40	27		5*	DC	4*	100	PG	43	GP	
2N1971	DR			4.0	40	60	40	42		500	DC	50	2.0	PG	72	GP	
2N1972	CD,PS	0.6	2.0		20	60	5.0	2.5	10	50	20*	0.1	30	NS	2	SW	190
2N1973	AM,GE,GI	0.8	2.0		60	100	7.0	140	5.0	3.0	1.0	.025	75	NS	5	GP	85
2N1973	AP,CD,FS, HU,TI	0.8	3.0		60	100	7.0	140	10	10	1.0	.025	75	NS	2	RF	85
2N1973																	
2N1974	AM,GE,GI	0.8	2.0		60	100	7.0	65	5.0	3.0	1.0	.025	75	NS	5	GP	70
2N1974	AP,CD,FS, HU,TI	0.8	3.0		60	100	7.0	70	10	10	1.0	.025	75	NS	2	RF	70
2N1974																	
2N1975	AM,GE	0.8	2.0		60	100	7.0	35	5.0	1.0	1.0	.025	75	NS	5	GP	50
2N1975	AP,CD,FS, HU,TI	0.8	3.0		60	100	7.0	30	10	10	1.0	.025	75	NS	2	RF	50
2N1980*	TS		150	15	30	50						6*	50	PG	43	GP	
2N1981*	TS		150	15	40	70						6*	70	PG	43	GP	
2N1982*	TS		150	15	50	90						6*	90	PG	43	GP	
2N1983	AP,CD,FS, PS	0.6	2.0	1.0	25	50	5.0	150	5.0	1.0	1.0	5.0	30	NS	2	SW	75
2N1984	AP,CD,FS, PS	0.6	2.0	1.0	25	50	5.0	70	5.0	1.0	1.0	5.0	30	NS	2	RF	75
2N1985	AP,CD,FS	0.6	2.0	1.0	25	50	5.0	30	5.0	1.0	1.0	5.0	30	NS	2	RF	75
2N1985	PS	0.6	2.0	1.0	25	50	5.0	60	5.0	1.0	1.0	.05	30	NS	2	SW	190
2N1986	AP,CD,FS	0.6	2.0		25	50	5.0	160	10	150		5.0	30	NS	2	RF	75
2N1986	PS	0.6	2.0		25	50	5.0	2.0	10	50	20*	.05	30	NS	2	SW	190
2N1987	AP,CD,CG,	0.6	2.0		25	50	5.0	50	10	150	DC	5.0	30	NS	2	RF	75
2N1987	FS																
2N1987	PS	0.6	2.0		25	50	5.0	2.0	10	50	20*	.05	30	NS	2	SW	190
2N1988	CD,FS	0.6	2.0		45	100	5.0	80	10	30	DC	5.0	50	NS	2	GP	50
2N1988	PS	0.6	2.0	1.0	45	100	5.0	60	5.0	1.0	1.0	.05	50	NS	2	SW	190
2N1989	CD,FS	0.6	2.0		45	100	5.0	40	10	30	DC	5.0	50	NS	2	GP	50
2N1989	PS	0.6	2.0	1.0	45	100	5.0	40	5.0	1.0	1.0	.05	50	NS	2	SW	190
2N1990	AP,CD,FS	0.6	2.0			100	3.0	50	10	30	DC			NS	2	RF	50
2N1990/46	SY	0.4	2.5			100	3.0	40	10	30	DC			NS	2	SP	
2N1991	HU	0.6	2.0		20	30	5.0	5.0	10	50	20*	5.0	10	PS	2	RF	50
2N1992	WE		.35	.05	10	15	6.0	125	10	10	1.0	0.5	15	NS	5	SW	430

2N1993 2N2111

TRANSISTOR obsolete*	MFG	MAXIMUM P_C (watts) T_A	MAXIMUM P_C (watts) T_C	MAXIMUM I_C amps	MAXIMUM V_{CE}	MAXIMUM V_{CB}	MAXIMUM V_{EB}	GAIN typ h_{fe}	GAIN V_{CE}	GAIN I_C ma amp*	GAIN freq kc mc*	MAX I_{CBO} μa ma*	@ V_{CE}	TYPE	BASE	USE	typ f_t $f_{\alpha b}$*
2N1993	SY	.15	0.3	0.3	18	30	30	170	1.0	10	DC	10	30	NG	2	SW	3.0
2N1994	TI	.15	0.3	0.3		30	30	50	5.0	1.0	1.0	6.0	20	NG	4	SW	5.0
2N1995	TI	.15	0.3	0.3		25	25	75	5.0	1.0	1.0	6.0	20	NG	4	SW	8.0
2N1996	TI	.15	0.3	0.3		20	20	100	5.0	1.0	1.0	6.0	20	NG	4	SW	10
2N1997	TI	.25	0.5	0.5		45	45	70	1.0	100	DC	6.0	15	PG	2	GP	5.0
2N1998	TI	.25	0.5	0.5		35	30	2.0	5.0	3.0	4.0*	6.0	15	PG	2	GP	7.0
2N1999	TI	.25	0.5	0.5		30	20	4.0	5.0	3.0	4.0*	6.0	15	PG	2	GP	14
2N2000	TI	0.3	0.6	1.0		50	20	125	0.5	500	DC	10	30	PG	2	SW	2.0
2N2001	TI	0.3	0.6	1.0		30	20	135	0.5	500	DC	6.0	15	PG	2	SW	6.0
2N2002	NS	.25			5.0	30	30					.03		PS	2	GP	
2N2003	NS	.25			5.0	30	30					.05		PS	2	GP	
2N2004	CY	0.4		0.1	15		50	12*			DC	.002	10	PS	2	GP	1.5*
2N2004	KF	.25		0.1	15	50	50	35	6.0	1.0	1.0	.002	10	PS	2	GP	1.0*
2N2004	NS	.25			15	50	50					.03		PS	2	GP	
2N2005	NS	.25			15	50	50					.05		PS	2	GP	
2N2006	NS	.25			35	60	60					0.1		PS	2	GP	
2N2007	NS	.25			35	60	60					0.1		PS	2	GP	
2N2008	FS	0.8	3.0	0.5	110	175	8.0	75	5.0	5.0	1.0	.05	100	NS	5	AF	80
2N2015	RC		150	10	50	100	10	35	4.0	5*	DC	50	30	NS	31	GO	.03*
2N2016	RC		150	10	65	130	10	35	4.0	5*	DC	50	30	NS	31	GO	.03*
2N2017	GE	1.0	5.0		60	60	8.0	100	10	1.0	1.0	10	30	NS	5	GP	
2N2042	MO	.02		.02	105	105	075	055	6.0	1.0	1.0	25	105	PG		GP	0.3
2N2042A	MO	0.2		0.2	105	105	75	45	6.0	1.0	1.0	25	105	PG	2	GP	0.3
2N2043	MO	.02		.02	105	105	075	125	6.0	1.0		25	105	PG		GO	0.3
2N2043A	MO	0.2		0.2	105	105	075	110	6.0	1.0	1.0	25	105	PG	2	GP	0.3
2N2048	PH,SR	.15		0.1	15	20	2.0	50	0.5	50	DC	5.0	5.0	PG	2	SW	250
2N2049	CD,FS,GE	0.8	3.0		35	75	7.0	110	10	0.1	1.0	.01	60	NS	2	SW	100
2N2060	TI	0.6	3.0	0.5	60	100	7.0	90	5.0	1.0	1.0	.002	80	NS			
2N2061	CV			3.0		20		10	2.0	2*	DC			PG	73	GP	
2N2062	CV			3.0		20		20	2.0	2*	DC			PG	73	GP	
2N2063	CV			3.0		40		10	2.0	2*	DC			PG	73	GP	
2N2064	CV			3.0		40		20	2.0	2*	DC			PG	73	GP	
2N2065	CV			3.0		80		10	2.0	2*	DC			PG	73	GP	
2N2066	CV			3.0		80		20	2.0	2*				PG	73	GP	
2N2069	CV			12		40		30	2.0	5*				PG	73	GP	
2N2070	CV			12		80		30	2.0	5*				PG	73	GP	
2N2075	DR,MO		170	15	65	80	40	30		5*	DC	4*	80	PG	43	GP	.75
2N2075A	MO		170	15	65	80	40	30	2.0	5*	DC	4*	80	PG	43	GP	.75
2N2076	DR,MO		170	15	55	70	30	30		5*	DC	4*	70	PG	43	GP	.75
2N2076A	MO		170	15	55	70	35	30	2.0	5*	DC	4*	70	PG	43	GP	.75
2N2077	DR,MO		170	15	45	50	25	30		5*	DC	4*	50	PG	43	GP	.75
2N2077A	MO		170	15	45	50	25	30	2.0	5*	DC	4*	50	PG	43	GP	.75
2N2078	DR,MO		170	15	25	40	20	30		5*	DC	4*	40	PG	43	GP	.75
2N2078A	MO		170	15	25	40	20	30	2.0	5*	DC	4*	40	PG	43	GP	.75
2N2079	DR,MO		170	15	65	80	40	52		5*	DC	4*	80	PG	43	GP	.75
2N2079A	MO		170	15	65	80	40	50	2.0	5*	DC	4*	80	PG	43	GP	.75
2N2080	DR,MO		170	15	55	70	32	52		5*	DC	4*	70	PG	43	GP	.75
2N2080A	MO		170	15	55	70	35	50	2.0	5*	DC	4*	70	PG	43	GP	.75
2N2081	DR,MO		170	15	45	50	25	52		5*	DC	4*	50	PG	43	GP	.75
2N2081A	MO		170	15	45	50	25	50	2.0	5*	DC	4*	50	PG	43	GP	.75
2N2082	DR,MO		170	15	25	40	20	52		5*	DC	4*	40	PG	43	GP	.75
2N2082A	MO		170	15	25	40	20	50	2.0	5*	DC	4*	40	PG	43	GP	.75
2N2084	AP	.125		.01		40	1.2	100	6.0	1.0	1.0	1.2	6*	PG	7	RF	100
2N2084 JAN	AP	0.1		.01	20	40	1.0	90	6.0	1.0	1.0	8.0	6.0	PG	7	GP	90
2N2086	PH	0.6	2.0	0.5		120	5.0					2.0	60	NS	5	SW	225
2N2087	PH	0.6	2.0	0.5	65	120	5.0	40	1.0	150		2.0	60	NS	5	SW	225
2N2089	AP	83		.01		20	1.2	150	6.0	1.0	1.0	1.2	6*	PG	37	RF	75
2N2090	AP	83		.01		20	1.2	150	6.0	1.0	1.0	1.2	6*	PG	37	RF	75
2N2091	AP	83		.01		20	1.2	150	6.0	1.0	1.0	1.2	6*	PG	37	RF	75
2N2092	AP	0.1		.01		25	1.2	150	6.0	1.0	1.0	1.2	6*	PG	37	RF	75
2N2093	AP	0.1		.01		25	2.5	150	6.0	1.0	1.0	1.2	6*	PG	37	RF	75
2N2095	SR	0.3	1.0	0.3	20	40	1.5	2.0		500	160*	15	5.0	PG	15	RF	1000
2N2096	SR	.25	.75	0.5	15	25	4.0	40	1.5	400	DC	12	12	PG	15	SW	400
2N2097	SR	.25	.75	0.5	27	40	4.0	50	1.5	400	DC	12	15	PG	15	SW	400
2N2098	SR	0.3	1.0	0.3	15		1.0	2.0			160*	15	5.0	PG	14	SW	1000
2N2099	SR	.25	.75	0.5	15	25	4.0	40	1.5	400	DC	12	12	PG	14	SW	400
2N2100	SR	.25	.75	0.5	27	40	4.0	125	1.5	400	DC	12	15	PG	14	SW	400
2N2101	AF		75	3.0		60	10	45	15	1*	DC	100	60	NS	59	GP	1.0
2N2102	RC	1.0	5.0	1.0	65	120	7.0	70	5.0	1.0	1.0	.002	60	NS	5	GP	
2N2106	GE	1.0	5.0		45	60	8.0	24	10	200	DC			NS	5	GP	15*
2N2107	GE	1.0	5.0		45	60	8.0	60	10	200	DC			NS	5	GP	15*
2N2108	GE	1.0	5.0		45	60	8.0	140	10	200	DC			NS	5	GP	15*
2N2109	WS		250	30	50	50	15	35	12	2.5*	1.0	1.5*	50	NS	66	SW	0.8
2N2110	WS		250	30	100	100	15	35	12	2.5*	1.0	1.5*	50	NS	66	SW	0.8
2N2111	WS		250	30	150	150	15	35	12	2.5*	1.0	1.5*	150	NS	66	SW	0.8

2N2112 2N2189

TRANSISTOR obsolete*	MFG	MAXIMUM P_C (watts) T_A	MAXIMUM P_C (watts) T_C	MAXIMUM I_C amps	MAXIMUM V_{CE}	MAXIMUM V_{CB}	MAXIMUM V_{EB}	GAIN typ h_{fe}	GAIN V_{CE}	GAIN I_C ma amp*	GAIN freq kc mc*	MAX I_{CBO} @ μa ma*	@ V_{CE}	TYPE	BASE	USE	typ f_t $f_{\alpha b}$*
2N2112	WS		250	30	200	200	15	35	12	2.5*	1.0	1.5*	200	NS	66	SW	0.8
2N2113	WS		250	30	250	250	15	35	12	5*	1.0	1.5*	250	NS	66	SW	0.8
2N2114	WS		250	30	300	300	15	35	12	5*	1.0	1.5*	300	NS	66	SW	0.8
2N2116	WS		250	30	50	50	15	27	12	4*	1.0	1.5*	50	NS	66	SW	0.8
2N2117	WS		250	30	100	100	15	27	12	4*	1.0	1.5*	100	NS	66	SW	0.8
2N2118	WS		250	30	150	150	15	27	12	4*	1.0	1.5*	150	NS	66	SW	0.8
2N2119	WS		250	30	200	200	15	27	12	4*	1.0	1.5*	200	NS	66	SW	0.8
2N2123	WS		250	30	50	50	15	28	12	5*	1.0	1.5*	50	NS	66	SW	0.8
2N2124	WS		250	30	100	100	15	28	12	5*	1.0	1.5*	100	NS	66	SW	0.8
2N2125	WS		250	30	150	150	15	28	12	5*	1.0	1.5*	150	NS	66	SW	0.8
2N2126	WS		250	30	200	200	15	28	12	5*	1.0	1.5*	200	NS	66	SW	0.8
2N2130	WS		250	30	50	50	15	35	12	5*	1.0	1.5*	50	NS	66	SW	0.8
2N2131	WS		250	30	100	100	15	35	12	5*	1.0	1.5*	100	NS	66	SW	0.8
2N2132	WS		250	30	150	150	15	35	12	5*	1.0	1.5*	150	NS	66	SW	0.8
2N2133	WS		250	30	200	200	15	35	12	5*	1.0	1.5*	200	NS	66	SW	0.8
2N2137	FS	0.6	1.0		20	40	4.0	7.5	10	50	100*	.05	20	NS	5	SW	750
2N2137	MO	6.0	62.5	3.0	20	30	15	45	2.0	600	DC	2*	30	PG	72	GP	1.0
2N2137A	MO		62.5	3.0	20	30	15	42	2.0	500	DC	2*	30	PG	72	GP	1.0
2N2138	MO		62.5	3.0	30	45	25	45	2.0	500	DC	2*	45	PG	72	GP	1.0
2N2138A	MO		62.5	3.0	30	45	25	42	2.0	500	DC	2*	45	PG	72	GP	1.0
2N2139	MO		62.5	3.0	45	60	30	45	2.0	500	DC	2*	60	PG	72	GP	1.0
2N2139A	MO		62.5	3.0	45	60	30	42	2.0	500	DC	2*	60	PG	72	GP	1.0
2N2140	MO		62.5	3.0	60	75	40	45	2.0	500	DC	2*	75	PG	72	GP	1.0
2N2140A	MO		62.5	3.0	60	75	40	42	2.0	500	DC	2*	75	PG	72	GP	1.0
2N2141	MO		62.5	3.0	65	90	45	45	2.0	500	DC	2*	90	PG	72	GP	1.0
2N2141A	MO		62.5	3.0	65	90	45	42	2.0	500	DC	2*	90	PG	72	GP	1.0
2N2142	MO		62.5	3.0	20	30	15	70	2.0	500	DC	2*	30	PG	72	GP	1.0
2N2142A	MO		62.5	3.0	20	30	15	70	2.0	500	DC	2*	30	PG	72	GP	1.0
2N2143	MO		62.5	3.0	30	45	25	70	2.0	500	DC	2*	45	PG	69	GP	1.0
2N2143A	MO		62.5	3.0	30	45	25	70	2.0	500	DC	2*	45	PG	72	GP	1.0
2N2144	MO		62.5	3.0	45	60	30	70	2.0	500	DC	2*	60	PG	72	GP	1.0
2N2144A	MO		62.5	3.0	45	60	30	70	2.0	500	DC	2*	60	PG	72	GP	1.0
2N2145	MO		62.5	3.0	60	75	40	70	2.0	500	DC	2*	75	PG	72	GP	1.0
2N2145A	MO		62.5	3.0	60	75	40	70	2.0	500	DC	2*	75	PG	72	GP	1.0
2N2146	MO		62.5	3.0	65	90	45	70	2.0	500	DC	2*	90	PG	72	GP	1.0
2N2146A	MO		62.5	3.0	65	90	45	70	2.0	500	DC	2*	90	PG	72	GP	1.0
2N2150	GE,TI	2.0	30	2.0	80	120	8.0	45	30	100	1.0	50	80	NS	63	GP	25
2N2151	GE,TI	2.0	30	2.0	80	120	8.0	70	30	100	1.0	50	80	NS	63	GP	25
2N2152	MO		170	30	30	45	25	47		15*	DC	4*	45	PG	43	GP	0.1
2N2152A	MO		170	30	30	45	25	70	2.0	5*	DC	4*	45	PG	43	GP	0.1
2N2153	MO		170	30	45	60	30	47		15*	DC	4*	60	PG	43	GP	0.1
2N2153A	MO		170	30	45	60	30	70	2.0	5*	DC	4*	60	PG	43	GP	0.1
2N2154	MO		170	30	60	75	40	47		15*	DC	4*	75	PG	43	GP	0.1
2N2154A	MO		170	30	60	75	40	70	2.0	5*	DC	4*	75	PG	43	GP	0.1
2N2155	MO		170	30	75	90	45	47		15*	DC	4*	90	PG	43	GP	0.1
2N2155A	MO		170	30	75	90	45	70	2.0	5*	DC	4*	90	PG	43	GP	0.1
2N2156	MO		170	30	30	45	25	63		15*	DC	4*	45	PG	43	GP	0.1
2N2156A	MO		170	30	30	45	25	110	2.0	5*	DC	4*	45	PG	43	GP	0.1
2N2157	MO		170	30	45	60	30	63		15*	DC	4*	60	PG	43	GP	0.1
2N2157A	MO		170	30	45	60	30	110	2.0	5*	DC	4*	60	PG	43	GP	0.1
2N2158	MO		170	30	60	75	40	63		15*	DC	4*	75	PG	43	GP	0.1
2N2158A	MO		170	30	60	75	40	110	2.0	5*	DC	4*	75	PG	43	GP	0.1
2N2159	MO		170	30	75	90	45	38		15*	DC	4*	90	PG	43	GP	0.1
2N2159A	MO		170	30	75	90	45	110	2.0	5*	DC	4*	90	PG	43	GP	0.1
2N2162	SR	.15		.05	30	30	30	35	3.0	1.0	1.0	.01	10	PS	2	GP	32
2N2163	SR	.15		.05	15	15	15	35	3.0	1.0	1.0	.01	4.5	PS	2	GP	32
2N2164	SR	.15		.05	8.0	12	12	40	3.0	1.0	1.0	.02	4.5	PS	2	GP	38
2N2165	SR	.15		.05	30	30	30	4.5	6.0	1.0	4*	.02	10	PS	2	GP	25
2N2166	SR	.15		.05	15	15	15	4.5	6.0	1.0	4*	.02	4.5	PS	2	GP	25
2N2167	SR	.15		.05	8.0	12	12	9.0	6.0	1.0	4*	.02	4.5	PS	2	GP	38
2N2168	SR	.06		0.1	15	20	2.0	70	0.5	10	DC	3.0	5.0	PG	14	SW	450
2N2169	SR	.06		0.1	15	15	2.0	40	0.5	10	DC	3.0	5.0	PG	14	SW	450
2N2170	SR	.06		0.1	15	15	2.0	20	0.5	10	DC	5.0	5.0	PG	14	SW	350
2N2171*	TS	.225		0.4	7.0	12						20	9.0	PG	2	RF	
2N2172	KF	0.2		0.4	15	20	10	50	0.5	200	DC	6.0	20	PG	2	SW	8.0*
2N2173	TI	3.0		5.0	80	120	10	90	15	2*	DC	100	3.0	NS	59	GP	20
2N2175	SP	0.1		.05	6.0	6.0	6.0	80	4.5	0.1	DC	.001	4.5	PS	2	GP	
2N2176	SP	0.1		.05	6.0	6.0	6.0	80	4.5	0.1	DC	.001	4.5	PS	2	GP	
2N2177	SP	0.1		.05	6.0	6.0	6.0	95	4.5	0.5	DC	.005	4.5	PS	2	GP	
2N2178	SP	0.1		.05	6.0	6.0	6.0	95	4.5	0.5	DC	.005	4.5	PS	2	GP	
2N2185	CY	0.4		0.1	30	30	30					.001	10	PS	2	GP	15*
2N2185	PH,SR	.15		.05	30	30	30					.001	10	PS	2	SW	10
2N2187	CY,PH,SR	MATCHED PAIR OF 2N2185s.															
2N2188	TI	.125	.25	.03		40	2.0	90	9.0	1.5	1.0	3.0	12	PG	14	SW	90
2N2189	TI	.125	.25	.03		40	2.0	135	9.0	1.5	1.0	3.0	12	PG	14	SW	110

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TRANSISTOR obsolete*	MFG	MAXIMUM						GAIN				MAX	@	TYPE	BASE	USE	typ
		P_C (watts)		I_C amps	V_{CE}	V_{CB}	V_{EB}	typ h_{fe}	V_{CE}	I_C ma amp*	freq kc mc*	I_{CBO} μa ma*	V_{CE}				f_t $f_{\alpha b}$*
		T_A	T_C														
2N2190	TI	.125	.25	.03		60	2.0	90	9.0	1.5	1.0	3.0	12	PG	14	SW	90
2N2191	TI	.125	.25	.03		60	2.0	135	9.0	1.5	1.0	3.0	12	PG	14	SW	110
2N2192	FS,TI	0.8	2.8	1.0	40	60	5.0	5.0	10	50	20*	.01	30	NS	5	SW	100
2N2192	GE	0.8	2.8	1.0	40	60	6.0	5.0	10	50	20*	.01	30	NS	2	SW	100
2N2192A	FS,GE,SF, TI	0.8	2.8	1.0	40	60	5.0	5.0	10	50	20*	.01	30	NS	5	SW	100
2N2192B	FS	0.8	2.8	1.0	40	60	5.0	5.0	10	50	20*	.01	30	NS	5	SW	100
2N2193	FS,GE,TI	0.8	2.8	1.0	50	80	8.0	5.0	10	50	20*	.01	60	NS	5	SW	100
2N2193A	FS,GE,SF, TI	0.8	2.8	1.0	50	80	8.0	5.0	10	50	20*	.01	60	NS	5	SW	100
2N2193B	FS	0.8	2.8	1.0	50	80	8.0	5.0	10	50	20*	.01	60	NS	5	SW	100
2N2194	FS,GE,TI	0.8	2.8	1.0	40	60	5.0	4.0	10	50	20*	.01	30	NS	5	SW	100
2N2194A	FS,GE,SF, TI	0.8	2.8	1.0	40	60	5.0	4.0	10	50	20*	.01	30	NS	5	SW	100
2N2194B	FS	0.8	2.8	1.0	40	60	5.0	4.0	10	50	20*	.01	30	NS	5	SW	100
2N2195	FS,GE	0.6	2.8	1.0	25	45	5.0	4.0	10	50	20*	0.1	30	NS	5	SW	100
2N2195A	FS,GE,SF	0.6	2.8	1.0	25	45	5.0	4.0	10	50	20*	0.1	30	NS	5	SW	100
2N2195B	FS	0.6	2.8	1.0	25	45	5.0	4.0	10	50	20*	0.1	30	NS	5	SW	100
2N2196	GE,SF	2.0	15		45	80	8.0	60	30	30	1.0	75	70	NS	75	GP	15
2N2197	GE,SF	2.0	15		45	80	8.0	60	30	1.0	1.0	75	80	NS	75	GP	15
2N2201	GE	2.0	15		100	120	10	60	30	30	1.0	50	120	NS	75	GP	20*
2N2202	GE	1.0	15		100	120	10	60	30	30	1.0	50	120	NS	93	GP	20*
2N2203	GE	1.0	15		100	120	10	60	30	30	1.0	50	120	NS	93	GP	20*
2N2204	GE	1.0	15		100	120	10	60	30	30	1.0	50	120	NS	95	GP	20*
2N2205	RC	0.3	1.0	0.2		25	3.0	5.0	10	10	100*	.025	15	NS	2	SW	
2N2206	RC	0.3	1.0	0.2		25	3.0	4.0	10	10	100*	.025	15	NS	2	SW	
2N2207	AP	0.2	.415	.03	50	50		200	6.0	10	DC	5.0	0.5	PG	37	RF	175
2N2210	DR			15	65	100		37		5*	DC			PG	43	GP	
2N2212	BN		60	10	120	120		85	120	120	DC	2*	100	PG	72	GP	
2N2217	FS,MO,SR, SY,TI	0.8	3.0	0.8	30	60	5.0	2.8	20	20	100*	.01	50	NS	5	SW	350
2N2218	FS,MO,SR, SY,TI	0.8	3.0	0.8	30	60	5.0	3.0	20	20	100*	.01	50	NS	5	SW	350
2N2219	FS,MO,SR, SY,TI	0.8	3.0	0.8	30	60	5.0	3.5	20	20	100*	.01	50	NS	5	SW	350
2N2220	FS,MO,SR	0.5	1.8	0.8	30	60	5.0	4.0	20	20	100*	.01	50	NS	2	SW	400
2N2220	TI	0.8	1.8	0.8	30	60	5.0	2.8	20	20	100*	.01	50	NS	5	SW	280
2N2221	FS,MO,SR	0.5	1.8	0.8	30	60	5.0	4.0	20	20	100*	.01	50	NS	2	SW	400
2N2221	TI	0.8	1.8	0.8	30	60	5.0	3.0	20	20	100*	.01	50	NS	5	SW	300
2N2222	FS,MO,SR	0.5	1.8	0.8	30	60	5.0	4.0	20	20	100*	.01	50	NS	2	SW	400
2N2222	TI	0.8	1.8	0.8	30	60	5.0	3.5	20	20	100*	.01	50	NS	5	SW	350
2N2223	TI	0.6	3.0	0.5	60	100	7.0	110	5.0	1.0	1.0	.01	80	NS			
2N2223A	TI	0.6	3.0	0.5	60	100	7.0	110	5.0	1.0	1.0	.01	80	NS			
2N2225	KF	0.2		0.4	4.0	15	10	200	0.5	100	DC	25	15	PG	2	SW	30*
2N2226	WS		150	10	50	50	15	600	12	5*	1.0	1.5*	50	NS	54	SW	
2N2227	WS		150	10	100	100	15	600	12	5*	1.0	1.5*	100	NS	54	SW	
2N2228	WS		150	10	150	150	15	600	12	5*	1.0	1.5*	150	NS	54	SW	
2N2229	WS		150	10	200	200	15	600	12	5*	1.0	1.5*	200	NS	54	SW	
2N2230	WS		150	10	50	50	15		12	5*	1.0	1.5*	50	NS	54	SW	
2N2231	WS		150	10	100	100	15		12	5*	1.0	1.5*	100	NS	54	SW	
2N2232	WS		150	10	150	150	15		12	5*	1.0	1.5*	150	NS	54	SW	
2N2233	WS		150	10	200	200	15		12	5*	1.0	1.5*	200	NS	54	SW	
2N2243	TI	0.8	2.8	1.0	80	120	7.0	60	10	10	DC	.01	60	NS	5	SW	
2N2243A	TI	0.8	2.8	1.0	80	120	7.0	60	10	10	DC	.01	60	NS	5	SW	
2N2244	FS	0.5			20	30	6.0	80		100	DC	.01		NS	2	GP	
2N2245	NS	0.5			20	30	6.0	165		100	DC	.01		NS	2	GP	
2N2246	NS	0.5			20	30	6.0	300		100	DC	.01		NS	2	GP	
2N2247	NS	0.5			45	60	6.0	80		100	DC	.01		NS	2	GP	
2N2248	NS	0.5			45	60	6.0	165		100	DC	.01		NS	2	GP	
2N2249	NS	0.5			45	60	6.0	300		100	DC	.01		NS	2	GP	
2N2250	NS	0.5			20		6.0	80		1.0	DC	10*		NS	2	GP	
2N2251	NS	0.5			20		6.0	165		1.0	DC	10*		NS	2	GP	
2N2252	NS	0.5			20		6.0	300		1.0	DC	10*		NS	2	GP	
2N2253	NS	0.5			45		6.0	80		1.0	DC	10*		NS	2	GP	
2N2254	NS	0.5			45		6.0	165		1.0	DC	10*		NS	2	GP	
2N2255	NS	0.5			45		6.0	300		1.0	DC	10*		NS	2	GP	
2N2256	MO	.03	1.0	0.1	7.0	7.0	1.0	30	10		DC	10	6.0	NS	2	SW	320
2N2257	MO	.03	1.0	0.1	7.0	7.0	1.0	50	1.0	10	DC	10	6.0	NS	2	SW	320
2N2258	MO	.15	0.3	0.1	7.0	7.0	1.0	30	1.0	10	DC	10	6.0	PG	2	SW	320
2N2259	MO	.15	0.3	0.1	7.0	7.0	1.0	50	1.0	10	DC	10	6.0	PG	2	SW	320
2N2266	MH		50	5.0	55	100	28	40	2.0	2*	DC	2*	80	PG	51	GP	0.4
2N2267	MH		50	5.0	55	120	28	40	2.0	2*	DC	2*	100	PG	51	GP	0.4
2N2268	MH		50	5.0	55	100	28	40	2.0	2*	DC	2*	80	PG	51	GP	0.4
2N2269	MH		50	5.0	55	120	28	40	2.0	2*	DC	2*	100	PG	51	GP	0.4
2N2270	BN,RC	1.0	5.0	1.0	45	60	7.0	100	10	5.0	1.0	0.1	6.0	NS	2	GP	180

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TRANSISTOR obsolete*	MFG	MAXIMUM P_C (watts) T_A	MAXIMUM P_C (watts) T_C	MAXIMUM I_C amps	MAXIMUM V_{CE}	MAXIMUM V_{CB}	MAXIMUM V_{EB}	GAIN typ h_{fe}	GAIN V_{CE}	GAIN I_C ma amp*	GAIN freq kc mc*	MAX I_{CBO} μa ma*	@ V_{CE}	TYPE	BASE	USE	typ f_t $f_{\alpha b}$*
2N2271	SY	.25		0.5	11	20	10	70	1.5	35	DC	50	20	PG	4	AF	.01
2N2273	RC	0.1		0.1	15	25	1.0	23	6.0	10	10*	10	12	PG	2	RF	
2N2274	CY	0.4		0.1	25	25	25	10			DC	.003	10	PS	2	GP	11*
2N2274	PH,SR	.15		.05	25	25	25	1.5	0.5	5.0	DC	.003	10	PS	2	SW	9.0
2N2275	CY,PH,SR	MATCHED PAIR OF 2N2274$.															
2N2276	CY	0.4		0.1	10		15	10*			DC	.003	10	PS	2	GP	11*
2N2276	PH,SR	.15		.05	10	15	15	1.5	0.5	5.0	DC	.003	10	PS	2	SW	9.0
2N2277	CY,PH,SR	MATCHED PAIR OF 2N2276$.															
2N2278	CY	0.4		0.1	15	15	15					.001	10	PS	2	GP	21*
2N2278	PH,SR	.15		.05	15	15	15					.001	10	PS	2	SW	12
2N2279	CY,PH,SR	MATCHED PAIR OF 2N2278$.															
2N2279/51	SY	.75	3.0		35	80	7.9	80	10	150	DC	.01	60	NS	90	SW	120
2N2280	CY	0.4		0.1	6.0		10					.001	6.0	PS	2	GP	29*
2N2280	PH,SR	.15		.05	6.0	10	10					.003	6.0	PS	2	SW	24
2N2281	CY,PH,SR	MATCHED PAIR OF 2N2280$.															
2N2282	BN		5.0	3.0	30	60		45				100	20	PG	75	GP	
2N2283	BN		5.0	3.0	60	100		45				100	40	PG	75	GP	
2N2284	BN		5.0	3.0	100	200		45				100	60	PG	75	GP	
2N2285	BN		100	25	60	60		50	6.0	500	30	5*	40	PG	72	GP	
2N2286	BN		100	25	100	100		50	6.0	500	30	5*	80	PG	72	GP	
2N2287	BN		100	25	120	120		60	6.0	500	30	5*	100	PG	72	GP	
2N2288	BN		60	10	40	40		40	2.0	5*	DC	1*	25	PG	72	GP	1.5*
2N2289	BN		60	10	80	80		40	2.0	5*	DC	1*	60	PG	72	GP	1.5*
2N2290	BN		60	10	120	120		40	2.0	5*	DC	2*	100	PG	72	GP	1.5*
2N2291	BN		60	10	40	40		85	2.0	5*	DC	1*	25	PG	72	GP	
2N2292	BN		60	10	80	80		85	2.0	5*	DC	1*	60	PG	72	GP	
2N2293	BN		60	10	80	80		85	2.0	5*	DC	2*	100	PG	72	GP	
2N2294	BN		60	10	120	120		85	2.0	5*	DC	1*	25	PG	72	GP	
2N2295	BN		60	10	80	80		85	2.0	5*	DC	1*	60	PG	72	GP	
2N2296	BN		60	10	120	120		85	2.0	5*	DC	2*	100	PG	72	GP	
2N2297	BN,FS,SY	0.8	5.0	1.0	35	80	7.0	75	10	150	DC	.01	60	NS	2	RF	90
2N2303	FS,HU	0.6	2.0		35	50	5.0	6.0	10	50	20*	1.0	30	PS	2	SW	100
2N2318	GI	.36			15	30	5.0	6.0	10	10	100*	.05	20	NS	2	SW	
2N2319	GI	0.3			15	30	5.0	6.0	10	10	100*	.05	20	NS	2	SW	
2N2320	GI	0.6			15	30	5.0	6.0	10	10	100*	.05	20	NS	2	SW	
2N2330	MO	0.8	3.0		20	30	5.0	1.5	1.0	1.0	100*	.001	4.5	NS	2	SP	150
2N2331	MO	0.5	1.8		20	30	5.0	1.5	1.0	1.0	100*	.001	4.5	NS	2	SP	150
2N2332	NS	.15			5.0	15	15					.05		PS	2	GP	
2N2333	NS	.15			5.0	15	15					.05		PS	2	GP	
2N2334	NS	.15			15	30	30					.05		PS	2	GP	
2N2335	NS	.15			15	30	30					.05		PS	2	GP	
2N2336	NS	.15			35	50	50					0.1		PS	2	GP	
2N2337	NS	.15			35	50	50					0.1		PS	2	GP	
2N2338	RC		150	7.5	40	60	6.0	45	4.0	3*	DC	200	30	NS	43	GP	20*
2N2339	RC		40	2.5	40	60	6.0	55	4.0	300	DC	100	30	NS	98	GP	1.0*
2N2350	GE	0.4	5.0	1.0	40	60	5.0	150	10	10	DC	.01	30	NS	2	SW	100
2N2350A	GE	0.4	5.0	1.0	40	60	5.0	150	10	10	DC	.01	30	NS	2	SW	100
2N2351	FS,GE	0.4	5.0	1.0	50	80	8.0	60	10	10	DC	.01	60	NS	5	SW	100
2N2351A	FS,GE	0.4	5.0	1.0	50	80	8.0	60	10	10	DC	.01	60	NS	5	SW	100
2N2352	GE	0.4	5.0	1.0	40	60	5.0	30	10	10	DC	.01	30	NS	2	SW	100
2N2352A	GE	0.4	5.0	1.0	40	60	5.0	30	10	10	DC	.01	30	NS	2	SW	100
2N2353	GE	0.4	5.0	1.0	25	45	5.0	40	10	150	DC	.01	30	NS	2	SW	100
2N2353A	GE	0.4	5.0	1.0	25	45	5.0	40	10	150	DC	0.1	30	NS	2	SW	100
2N2357	BN		170	50	60	60	2.5	30	1.5	50*	DC	5*	40	PG	72	GP	
2N2358	BN		170	50	80	80	2.5	30	1.5	50*	DC	5*	80	PG	72	GP	
2N2359	BN		170	50	120	120	2.5	30	1.5	50*	DC	5*	100	PG	72	GP	
2N2360	PH,SR	.06		.05	15	20	0.5	20	10	2.0	1.0	10	10	PG	40	SW	110
2N2361	PH,SR	.06		.05	15	20	0.5	20	10	2.0	1.0	10	10	PG	40	RF	
2N2362	PH,SR	.06		.05	15	20	0.5	20	10	2.0	1.0	10	10	PG	40	RF	
2N2363	TI	.075		.05	20	30	0.5	20	6.0	2.0	1.0	5.0	12	PG	7	RF	600
2N2364	GE	0.4	5.0	1.0	80	120	7.0	60	10	10	DC	.01	60	NS	2	SW	100
2N2364A	GE	0.4	5.0	1.0	80	120	7.0	60	10	10	DC	.01	60	NS	2	SW	100
2N2868	FS	0.8	2.8	1.0	40	60	7.0	60	10	10	DC	.01	30	NS	5	SW	100
2N2368	SY,TI	.36	1.2	0.5	15	40	4.5	40	1.0	10	DC	0.4	20	NS	2	SW	650
2N2369	FS,SY,TI	.36	1.2	0.5	15	40	4.5	80	1.0	10	DC	0.4	20	NS	2	SW	750
2N2369A	FS	.36	1.2	0.2	15	40	4.5	70	4.0	30	DC			NS	5	SW	700
2N2370	NS	0.2		0.1	15	15	15					.005		PS	2	GP	
2N2371	NS	0.2		0.1	15	15	15					.005		PS	2	GP	
2N2372	NS	.15		0.1	15	15	15					.005		PS	2	GP	
2N2373	NS	.15		0.1	15	15	15					.005		PS	2	GP	
2N2374	PH	.25		0.5	25	35	35	210	12	2.0		7.0	15	PG	2	AF	
2N2375	PH	.25		0.5	25	35	35	95	12	2.0		7.0	15	PG	2	AF	
2N2376	PH	.25		0.5	25	35	35					7.0	15	PG	2	AF	
2N2377	SR	.15		.05	25	25		65	6.0	1.0	DC	0.1	25	PG	2	GP	20
2N2378	SR	.15		.05	10	10		25	0.5	15	DC	0.1	10	PS	2	GP	20

2N2380 2N2501

TRANSISTOR obsolete*	MFG	MAXIMUM						GAIN				MAX	@	TYPE	BASE	USE	typ
		P_C (watts)		I_C	V_{CE}	V_{CB}	V_{EB}	typ h_{fe}	V_{CE}	I_C ma	freq kc	I_{CBO}	V_{CE}				f_t
		T_A	T_C	amps						amp*	mc*	μa ma*					$f_{\alpha b}$*
2N2380	PH	0.6	2.0	0.5	40	80	5.0	100	5.0	6.0	1.0	4.0	40	NS	5	SW	270
2N2380A	PH	0.6	2.0	0.5	40	80	5.0	100	5.0	6.0	1.0	4.0	40	NS	5	SW	270
2N2381	MO	0.3	.75	0.5	15	30	4.0	50	1.0	400	DC	7.0	5.0	PG	2	SW	500
2N2382	MO	0.3	.75	0.5	20	45	4.0	50	1.0	400	DC	7.0	5.0	PG	2	SW	500
2N2387	TI	0.3		.03	45	45	5.0	75		.01	DC			NS	91	GP	55
2N2388	TI	0.3		.03	45	45	5.0	190		.01	DC			NS	91	GP	55
2N2397	SY	0.3		0.2	15	35	5.0	80	1.0	10	DC	0.1	15	NS	90	SW	300
2N2398	PH,SR	.06		.05		20	0.5	33			DC	10	10	PG	7	SW	1500
2N2399	PH,SR	.06		.05		20	0.5	33			DC	10	10	PG	7	RF	
2N2400	PH,SR	.15		0.1	7.0	12	1.0	30	0.5	10	DC	3.0	5.0	PG	2	SW	225
2N2401	PH,SR	.15		0.1	10	15	1.5	50	0.5	10	DC	1.5	5.0	PG	2	SW	200
2N2402	PH,SR	.15		0.1	12	18	2.0	60	0.5	10	DC	1.5	5.0	PG	2	SW	275
2N2403	NS		8.0		60		5.0	40		600	DC			NS	2	GP	150
2N2404	NS		8.0		60		5.0	80		600	DC			NS	2	GP	150
2N2405	RC	1.0	5.0	1.0	90	120	7.0	175	5.0	5.0	1.0	.01	90	NS	5	GP	220
2N2410	FS,SY,TI	0.8	2.5	0.8	30	60	5.0	3.5	10	50	100*	0.3	30	NS	5	SW	300
2N2411	HU,TI	0.3	1.0	0.1	20	25	5.0	3.0	10	50	100*			PS	2	SW	200
2N2412	HU,TI	0.3	1.0	0.1	20	25	5.0	3.0	10	50	100*			PS	2	SW	200
2N2413	TI	0.3	1.0	0.2	18	40	5.0	4.0	10	10	100*			NS	5	SW	400
2N2415	TI	.075		.02	10	15	0.5	45	6.0	2.0	1.0	5.0	10	PG	7	RF	560
2N2416	TI	.075		.02	10	15	0.5	30	6.0	2.0	1.0	5.0	10	PG	7	RF	500
2N2424	CY	0.4		0.1	5.0		20				DC	.001	30	PS	2	GP	32*
2N2424	KF	0.4		.05	5.0	40	20	110	0.5	5.0	DC	0.1	30	PS	2	SW	30*
2N2425	CY	0.4		0.1	10		30				DC	.001	30	PS	2	GP	18*
2N2425	KF	0.4		.05	10	50	30	70	0.5	5.0	DC	0.1	30	PS	2	SW	20*
2N2428	AP	.15	0.5	0.1	32	32	10	125	5.0	2.0	1.0	10	10	PG	14	GP	1.7
2N2429	AP	.15	0.5	0.1	32	32	10	180	5.0	2.0	1.0	10	10	PG	14	GP	2.3
2N2430	AP	.28	.45	0.3	32	32	10	120		20	DC	10	0.5	PG	14	GP	2.0
2N2432	TI	0.3	0.6	0.1	30	30	15	3.0	5.0	1.0	20*	10	25	NS	5	SW	40
2N2433	CD				45	75	7.0	65			1.0	.001	45	NS	5	GP	
2N2434	CD				45	75	7.0	125			1.0	.001	45	NS	5	GP	
2N2435	CD				80	120	7.0	65			1.0	.001	80	NS	5	GP	
2N2436	CD				80	120	7.0	125			1.0	.001	80	NS	5	GP	
2N2437	CD				75	100	7.0	33			1.0	.001	75	NS	5	GP	
2N2438	CD				75	100	7.0	63			1.0	.001	75	NS	5	GP	
2N2439	CD				75	100	7.0	130			1.0	.001	75	NS	5	GP	
2N2440	CD	0.8				120	7.0	125			1.0	.001	120	NS	5	GP	
2N2443	FS	0.8	4.0		100	120	7.0	4.0	10	50	20*	.01	90	NS	5	RF	80
2N2451	SR	.025		.05	5.0	6.0		45	.25	10	DC	5.0	6.0	PG	18	GP	
2N2455	SY	.15		0.2	11	15	2.5	96	0.4	30	DC	2.0	6.0	PG	5	SW	820
2N2456	SY	.15		0.2	11	15	2.5	96	0.4	30	DC	2.0	6.0	PG	5	SW	1200
2N2459	SP	0.4	4.0		60	100	8.0	55	5.0	5.0	1.0	.002	80	NS	2	RF	150
2N2460	SP	0.4	4.0		60	100	8.0	95	5.0	5.0	1.0	.002	80	NS	2	RF	150
2N2461	SP	0.4	4.0		60	100	8.0	140	5.0	5.0	1.0	.002	80	NS	2	RF	150
2N2462	SP	0.4	4.0		60	100	8.0	235	5.0	5.0	1.0	.002	80	NS	2	RF	150
2N2463	SP	0.5	1.8		60	100	8.0	55	5.0	5.0	1.0	.002	80	NS	2	RF	150
2N2464	SP	0.5	1.8		60	100	8.0	95	5.0	5.0	1.0	.002	80	NS	2	RF	150
2N2465	SP	0.5	1.8		60	100	8.0	140	5.0	5.0	1.0	.002	80	NS	2	RF	150
2N2466	SP	0.5	1.8		60	100	8.0	235	5.0	5.0	1.0	.002	80	NS	2	RF	150
2N2467	BN		5.0	3.0	30	60		45				100	20	PG	5	GP	
2N2468	BN		5.0	3.0	60	100		45				100	40	PG	5	GP	
2N2469	BN		5.0	3.0	100	20		45				100	60	PG	5	GP	
2N2475	FS,RC,SY	0.3	0.5	2.5	6.0	15	4.0	10	2.0	20	100*	.05	5.0	NS	5	SW	850
2N2475/46	SY	0.3			6.0	15	4.0	90	0.4	20	DC	.05	5.0	NS	90	SW	1000
2N2475/51	SY	0.3			6.0	15	4.0	90	0.4	20	DC	.05	5.0	NS	90	SW	1000
2N2476	FS,RC	0.6	2.0		20	60	5.0	4.0	10	50	100*	0.2	30	NS	5	SW	500
2N2477	FS,RC	0.6	2.0		20	60	5.0	4.0	10	50	100*	0.2	30	NS	5	SW	500
2N2478	PH	0.6	2.0	0.5	40	120	5.0					2.0	60	NS	5	SW	
2N2479	PH	0.6	2.0	0.5	40	80	5.0	100	5.0	6.0	1.0	4.0	40	NS	5	SW	
2N2481	MO	.36	1.2		15	40	5.0	5.0	10	10	100*	.05	20	NS		SW	500
2N2482	RC	.15		0.1	12	20	3.0	10	10	10	100*	5.0	6.0	NG	2	RF	
2N2483	FS	.36	1.2	.05	60	60	6.0	2.3	5.0	0.5	30*	.01	45	NS	5	RF	80
2N2484	FS	.36	1.2	.05	60	60	6.0	2.6	5.0	0.5	30*	.01	45	NS	5	RF	90
2N2487	SR	.06		0.1	10			45	0.5	10	DC	3.0		PG	2	SW	600
2N2488	SR	.06		0.1	10			45	0.5	50	DC	3.0		PG	2	SW	600
2N2489	SR	.06		0.1	15			45	0.5	10	DC	2.5		PG	2	SW	550
2N2490	DR		170	15	50	70	40	30		5*	DC	3*	7.0	PG	43	GP	
2N2491	DR		170	15	40	60	30	52		5*	DC	3*	60	PG	43	GP	
2N2492	DR		170	15	65	80	60	37		5*	DC	2*	80	PG	43	GP	
2N2942	SR	.15		0.1	25	50	2.5	50	0.5	50	DC			PG		SW	235
2N2493	DR		170	15	75	100	80	37		5*	DC	3*	100	PG	43	GP	200
2N2493	SR	.15		0.1	15			60	0.3	10	DC	3.0		PG	14	SW	200
2N2494	AP	0.1		.01		20	0.5	70	6.0	1.0	1.0	6.0	6.0	PG	37	RF	300
2N2495	AP	0.1		.01	15	35	0.5	60	6.0	1.0	DC	6.0	12	PG	7	RF	300
2N2501	MO	.36	1.2		20	40	6.0	5.0	20	10	100*	.025	20	NS	2	SW	350

TRANSISTOR obsolete*	MFG	MAXIMUM P_C (watts) T_A	MAXIMUM P_C (watts) T_C	MAXIMUM I_C amps	MAXIMUM V_{CE}	MAXIMUM V_{CB}	MAXIMUM V_{EB}	GAIN typ h_{fe}	GAIN V_{CE}	GAIN I_C ma	GAIN freq kc mc*	MAX I_{CBO} μa ma*	@ V_{CE}	TYPE	BASE	USE	typ f_t $f_{\alpha b}$*
2N2509	AF,FS	.36	1.2		80	125	7.0	2.5	10	5.0	30*	.005	100	NS	5	RF	90
2N2510	AM,FS	.36	1.2		65	100	7.0	2.5	10	5.0	30*	.005	80	NS	5	RF	90
2N2511	AM,FS	.36	1.2		50	80	7.0	2.5	10	5.0	30*	.005	60	NS	5	RF	90
2N2515	SP	0.4	4.0		60	80	6.0	65	5.0	5.0	1.0	.005	50	NS	2	RF	100
2N2516	SP	0.4	4.0		60	80	8.0	130	5.0	5.0	1.0	.005	50	NS	2	RF	100
2N2518	SP	0.4	4.0		80	125	8.0	65	5.0	5.0	1.0	.005	80	NS	2	RF	100
2N2519	SP	0.4	4.0		80	125	8.0	130	5.0	5.0	1.0	.005	80	NS	2	RF	100
2N2520	SP	0.5	1.8		60	60	8.0	45	5.0	1.0	1.0	.005	45	NS	2	RF	100
2N2512	SP	0.4	4.0		60	60	8.0	57	5.0	1.0	1.0	.005	45	NS	2	RF	100
2N2522	SP	0.4	4.0		60	60	8.0	185	5.0	1.0	1.0	.005	45	NS	2	RF	100
2N2523	SP	0.4	4.0		45	60	6.0	135	5.0	1.0	1.0	.002	45	NS	2	RF	100
2N2524	SP	0.4	4.0		45	60	6.0	350	5.0	1.0	1.0	.002	45	NS	2	RF	100
2N2525	PS		25	1.2	80	100	4.0	2.0	28	350	70*			NS		RF	210
2N2526	MO		85	10	80	80	5.0	15	12	500	30	3*	80	PG	72	SW	450
2N2527	MO		85	10	120	120	5.0	15	12	500	30	3*	120	PG	72	SW	450
2N2528	MO		85	10	160	160	5.0	15	12	500	30	3*	160	PG	72	SW	450
2N2529	TI	.15		.025	40	45	2.0	16	5.0	1.0	1.0	.05	30	NS	2	GP	20
2N2530	TI	.15		.025	40	45	2.0	28	5.0	1.0	1.0	.05	30	NS	2	GP	23*
2N2531	TI	.15		.025	40	45	2.0	46	5.0	1.0	1.0	.05	30	NS	2	GP	25*
2N2532	TI	.15		.025	40	45	2.0	100	5.0	1.0	1.0	.05	30	NS	2	GP	25*
2N2533	TI	.15		.025	40	45	2.0	55	20	1.0	1.0	.05	30	NS	2	GP	22*
2N2534	TI	.15		.025	40	45	2.0	100	20	1.0	1.0	.05	30	NS	2	GP	27*
2N2537	MO,TI	0.8	3.0	0.8	30	60	5.0	3.0	20	20	100*	.25	40	NS	5	SW	400
2N2538	MO,TI	0.8	3.0	0.8	30	60	5.0	3.5	20	20	100*	.25	40	NS	5	SW	400
2N2539	MO	0.5	1.8	0.8	30	60	5.0	3.0	20	20	100*	.25	40	NS	5	SW	400
2N2540	MO	0.5	1.8	0.8	30	60	5.0	3.0	20	20	100*	.25	40	NS	5	SW	400
2N2540	TI	0.8	1.8	0.8	30	60	5.0	3.5	20	20	100*	.25	40	NS	5	SW	400
2N2551	HU	0.4	0.6		150	150	150	30	5.0	100	DC	0.1	100	PS	2	GP	
2N2569	AP		1.0		15	20	5.0					.01	15	NS	2	SW	150
2N2570	AP		1.0		15	20	5.0					.01	15	NS	2	SW	150
2N2580	DR			10	400	400	5.0	25		5*	DC	10*	400	NS	43	GP	
2N2581	DR			10	400	400	5.0	43		5*	DC			NS	43	GP	
2N2582	DR			10	500	500	5.0	25		5*	DC			NS	43	GP	
2N2583	DR			10	500	500	5.0	45		5*	DC			NS	43	GP	
2N2590	SP	0.4	4.0		60	100	7.0	55	5.0	5.0	1.0	.025	80	PS	2	RF	100
2N2591	SP	0.4	4.0		60	100	7.0	100	5.0	5.0	1.0	.025	80	PS	2	RF	100
2N2592	SP	0.4	4.0		60	100	7.0	150	5.0	5.0	1.0	.025	80	PS	2	RF	100
2N2593	SP	0.4	4.0		60	100	7.0	210	5.0	5.0	1.0	.025	80	PS	2	RF	100
2N2595	SP	0.4	4.0		60	80	6.0	32	5.0	5.0	1.0	.025	50	PS	2	RF	80
2N2596	SP	0.4	4.0		60	80	6.0	65	5.0	5.0	1.0	.025	50	PS	2	RF	80
2N2597	SP	0.4	4.0		60	80	6.0	130	5.0	5.0	1.0	.025	50	PS	2	RF	80
2N2598	SP	0.4	4.0		80	125	7.0	32	5.0	5.0	1.0	.025	80	PS	2	RF	80
2N2599	SP	0.4	4.0		80	125	7.0	65	5.0	5.0	1.0	.025	80	PS	2	RF	80
2N2600	SP	0.4	4.0		80	125	7.0	130	5.0	5.0	1.0	.025	80	PS	2	RF	
2N2601	SP	0.4	4.0		60	60	6.0	45	5.0	1.0	1.0	.025	45	PS	2	RF	100
2N2602	SP	0.4	4.0		60	60	6.0	55	5.0	1.0	1.0	.025	45	PS	2	RF	100
2N2603	SP	0.4	4.0		60	60	6.0	185	5.0	1.0	1.0	.025	45	PS	2	RF	100
2N2604	SP	0.4	4.0		45	60	6.0	210	5.0	1.0	1.0	.01	45	PS	2	RF	100
2N2605	SP	0.4	4.0		45	60	6.0	375	5.0	1.0	1.0	.01	45	PS	2	RF	100
2N2613	RC	.12	0.3	.05	15	30	25	200	4.0	0.5	1.0	5.0	20	PG	2	AF	2.0
2N2614	RC	.12	0.3	.05	20	40	25	160	6.0	1.0	1.0	5.0	20	PG	2	AF	2.0
2N2616	FS	0.3	0.8	.05	15	30	3.0	9.0	10	4.0	100*	.01	15	NS	5	RF	900
2N2617	AP	.25		.05	25	25	20	35	6.0	1.0	1.0	0.1	10	PS	34	GP	1.0
2N2618	SY	0.6	2.0	.75	40	60	7.0	125	10	25	1.0	.25	25	NS	5	SW	300
2N2618/46	SY	0.4	1.2	.75	40	60	7.0	110	1.0	10	1.0	.25	25	NS	2	SW	300
2N2632	MH		40	5.0	60	90	8.0	90	5.0	50	1.0	100	50	NS	59	RF	40
2N2633	MH		40	5.0	80	120	8.0	75	5.0	50	1.0	0.1	60	NS	59	RF	40
2N2634	MH		40	5.0	100	150	8.0	90	5.0	50	1.0	0.1	60	NS	59	RF	40
2N2635	MO,TI	.15	0.3	0.1	15	30	2.5	155	1.0	50	DC	5.0	25	PG	5	SW	275
2N2636	BN		50	25	40			50	1.5	25*	DC	10*	100	PG	72	GP	
2N2637	BN		50	25	60			50	1.5	25*	DC	10*	100	PG	72	GP	
2N2638	BN		100	25	80			40	1.5	25*	DC	10*	100	PG	72	SW	
2N2639	SP,TI	0.3	0.6	.03	45	45	5.0	270	5.0	1.0	1.0	.01	45	NS		SP	
2N2640	SP,TI	0.3	0.6	.03	45	45	5.0	270	5.0	1.0	1.0	.01	45	NS		SP	
2N2641	SP,TI	0.3	0.6	.03	45	45	5.0	270	5.0	1.0	1.0	.01	45	NS		SP	
2N2642	SP,TI	0.3	0.6	.03	45	45	5.0	250	5.0	1.0	1.0	.01	45	NS		SP	
2N2643	SP,TI	0.3	0.6	.03	45	45	5.0	250	5.0	1.0	1.0	.01	45	NS		SP	
2N2644	SP,TI	0.3	0.6	.03	45	45	5.0	250	5.0	1.0	1.0	.01	45	NS		SP	
2N2645	FS	0.5	1.8		35	75	7.0	4.3	10	10	20*	.01	60	NS	6	RF	100
2N2648	GI	0.3			10	35	30	4.0	10	1.0	5*	5.0	15	PG	5	SW	
2N2651	PH	.36	1.2	0.5	20	40	5.0					30	20	NS	5	SW	700
2N2654	AP	0.1		.01	25	32	10	50	6.0	1.0	DC	8.0	10	PG	7	RF	250
2N2656	PS	.36	1.2	0.2	15	25	5.0	2.5	10	20	100*	.03	15	NS	2	RF	250
2N2657	MH	1.25	6.5	5.0	60	80	5.0	4.0	10	200	10*	0.1	60	NS	5	RF	40
2N2658	MH	1.25	6.5	5.0	80	100	5.0	4.0	10	200	10*	0.1	60	NS	5	RF	40

TRANSISTOR obsolete*	MFG	MAXIMUM P_C (watts) T_A	MAXIMUM P_C (watts) T_C	MAXIMUM I_C amps	MAXIMUM V_{CE}	MAXIMUM V_{CB}	MAXIMUM V_{EB}	GAIN typ h_{fe}	GAIN V_{CE}	GAIN I_C ma amp*	GAIN freq kc mc*	MAX I_{CBO} μa ma*	@ V_{CE}	TYPE	BASE	USE	typ f_t $f_{\alpha b}$*
2N2659	TI	0.4	15	3.0		50	20	70	3.0	100	1.0	125	25	PG	5	GP	
2N2660	TI	0.4	15	3.0		70	20	70	3.0	100	1.0	125	35	PG	5	GP	
2N2661	TI	0.4	15	3.0		90	20	70	3.0	100	1.0	125	45	PG	5	GP	
2N2662	TI	0.9	15	3.0		50	20	70	3.0	100	1.0	125	25	PG	59	GP	
2N2663	TI	0.9	15	3.0		70	20	70	3.0	100	1.0	125	35	PG	59	GP	
2N2664	TI	0.9	15	3.0		90	20	70	3.0	100	1.0	125	45	PG	59	GP	
2N2665	TI	0.4	15	3.0		50	20	70	3.0	100	1.0	125	25	PG	5	GP	
2N2666	TI	0.4	15	3.0		70	20	70	3.0	100	1.0	125	35	PG	5	GP	
2N2667	TI	0.4	15	3.0		90	20	70	3.0	100	1.0	125	45	PG	5	GP	
2N2668	TI	0.9	15	3.0		50	20	70	3.0	100	1.0	125	25	PG	59	GP	
2N2669	TI	0.9	15	3.0		70	20	70	3.0	100	1.0	125	35	PG	59	GP	
2N2670	TI	0.9	15	3.0		90	20	70	3.0	100	1.0	125	45	PG	59	GP	
2N2671	AP	0.1		.01	32	32	1.5	150	6.0	1.0	1.0	8.0	6.0	PG	7	RF	75
2N2672	AP	0.1		.01	32	32	1.5	150	6.0	1.0	1.0	8.0	6.0	PG	2	RF	75
2N2673	GE	.25		.025	45	60	3.0	15	5.0	1.0	1.0	0.1	30	NS	2	GP	10*
2N2674	GE	.25		.025	45	60	3.0	30	5.0	1.0	1.0	0.1	30	NS	2	GP	11*
2N2675	GE	.25		.025	45	60	3.0	55	5.0	1.0	1.0	0.1	30	NS	2	GP	13*
2N2676	GE	.25		.025	45	60	3.0	200	5.0	1.0	1.0	0.1	30	NS	2	GP	15*
2N2677	GE	.25		.025	35	45	2.0	70	20	1.0	1.0	0.1	30	NS	2	GP	50*
2N2678	GE	.25		.025	35	45	2.0	100	20	1.0	1.0	.01	30	NS	2	GP	70*
2N2692	TI	0.3	1.0	.05	30	45	10	2.2	1.0	1.0	30*	.01	25	NS	5	SW	
2N2693	TI	0.3	0.6	.03	30	45	10	2.0	1.0	1.0	30*	.01	25	NS	5	SW	
2N2694	TI	0.3	0.6	.03	20	45	10	1.8	1.0	1.0	30*	.01	25	NS	5	SW	
2N2697	MH		10	5.0	60	80	5.0	4.0	10	200	10*	0.1	60	NS	30	GP	40
2N2698	MH		10	5.0	80	100	8.0	4.0	10	200	10*	0.1	60	NS	30	RF	40
2N2706	AP	0.5		0.2	32	32	10	135		20	DC	10	0.5	PG	22	GP	2.0
2N2707	AP	MATCHED PAIR ONE 2N2706 AND ONE 2N2430.															
2N2710	PH	.36	1.2	0.5	20	40	5.0					30	20	NS	5	SW	650
2N2711	GE	0.2		0.1	18	18	5.0	55	5.0	2.0	455	0.5	18	NS	36	GP	100
2N2712	GE	0.2		0.1	18	18	5.0	169	5.0	2.0	455	0.5	18	NS	36	GP	160
2N2713	GE	0.2		0.2	18	18	5.0	90	5.0	1.0	1.0	0.5	18	NS	36	GP	120
2N2714	GE	0.2		0.2	18	18	5.0	145	5.0	1.0	1.0	0.5	18	NS	36	GP	160
2N2715	GE	0.2		.025	18	18	5.0	182	5.0	2.0	455	0.5	18	NS	36	GP	120
2N2716	GE	0.2		.025	18	18	5.0	110	5.0	2.0	455	0.5	18	NS	36	GP	120
2N2717	AP	.275		.03	15	20	2.5	110	1.0	30	DC			PG	2	RF	500
2N2726	GE	1.0	5.0			200	10	10	30	1.0	1*	1.0	100	NS	4	GP	
2N2727	GE	1.0	5.0			200	10	20	30	1.0	1*	1.0	100	NS	4	GP	
2N2728	MO		170	50	5.0	15	15	60	2.0	20	DC	10*		PG	43	GP	0.2
2N2729	FS	0.3	0.8	.05	15	30	3.0	9.0	10	4.0	100*	.01	15	NS	5	RF	900
2N2730	MH			65	60	80		30		65*	DC			NG	43	GP	.35
2N2731	MH			65	45	60		30		65*	DC			NG	43	GP	.35
2N2732	MH			65	30	40		30		65*	DC			PG	43	GP	.35
2N2733	MH			65	60	80		30		65*	DC			NG	25	GP	.35
2N2734	MH			65	45	60		30		65*	DC			PG	28	GP	.35
2N2735	MH			65	30	40		30		65*	DC			NG	25	GP	.35
2N2736	MH			65	60	80		30		65*	DC			NG	61	GP	.35
2N2737	MH			65	45	60		30		65*	DC			NG	61	GP	.35
2N2738	MH			65	30	40		30		65*	DC			NG	61	GP	.35
2N2739	WS		100	20	50	50	15	14	12	5*	1.0	1.5*	50	NS	54	SW	
2N2740	WS		200	20	100	100	15	14	12	5*	1.0	1.5*	100	NS	54	SW	.014
2N2741	WS		200	20	150	150	15	14	12	5*	1.0	1.5*	150	NS	54	SW	.014
2N2742	WS		200	20	200	200	15	14	12	5*	1.0	1.5*	200	NS	54	SW	.014
2N2745	WS		200	20	50	50	15	21	12	5*	1.0	1.5*	50	NS	54	SW	.014
2N2746	WS		200	20	100	100	15	21	12	5*	1.0	1.5*	100	NS	54	SW	.014
2N2747	WS		200	20	150	150	15	21	12	5*	1.0	1.5*	150	NS	54	SW	.014
2N2748	WS		200	20	200	200	15	21	12	5*	1.0	1.5*	200	NS	54	SW	.014
2N2751	WS		200	20	50	50	15	27	12	5*	1.0	1.5*	50	NS	54	SW	.016
2N2752	WS		200	20	100	100	15	27	12	5*	1.0	1.5*	100	NS	54	SW	.016
2N2753	WS		200	20	150	150	15	27	12	5*	1.0	1.5*	150	NS	54	SW	.016
2N2754	WS		200	20	200	200	15	27	12	5*	1.0	1.5*	200	NS	54	SW	.016
2N2757	WS		200	30	50	50	15	14	12	5*	1.0	1.5*	50	NS	59	GP	.014
2N2758	WS		200	30	100	100	15	14	12	5*	1.0	1.5*	100	NS	59	GP	.014
2N2759	WS		200	30	150	150	15	14	12	5*	1.0	1.5*	150	NS	59	GP	.014
2N2760	WS		200	30	200	200	15	14	12	5*	1.0	1.5*	200	NS	59	GP	.014
2N2761	WS		200	30	250	250	15	14	12	5*	1.0	1.5*	250	NS	59	GP	.014
2N2763	WS		200	30	50	50	15	21	12	5*	1.0	1.5*	50	NS	59	GP	.014
2N2764	WS		200	30	100	100	15	21	12	5*	1.0	1.5*	100	NS	59	GP	.014
2N2765	WS		200	30	150	150	15	21	12	5*	1.0	1.5*	150	NS	59	GP	.014
2N2766	WS		200	30	200	200	15	21	12	5*	1.0	1.5*	200	NS	59	GP	.014
2N2769	WS		200	30	50	50	15	27	12	5*	1.0	1.5*	50	NS	59	GP	.015
2N2770	WS		200	30	100	100	15	27	12	5*	1.0	1.5*	100	NS	59	GP	.015
2N2771	WS		200	30	150	150	15	27	12	5*	1.0	1.5*	150	NS	59	GP	.015
2N2772	WS		200	30	200	200	15	27	12	5*	1.0	1.5*	200	NS	59	GP	.015
2N2781	PS	2.0	13	2.0	30	75	5.0	2.0	28	350	70*	.05	28	N	14	RF	210
2N2782	PS	2.0	13	2.0	40	100	5.0	2.0	28	350	70*	.05	28	N	17	RF	210

2N2783 2N2938

TRANSISTOR obsolete*	MFG	MAXIMUM						GAIN				MAX	@	TYPE	BASE	USE	typ
		P_C (watts)		I_C amps	V_{CE}	V_{CB}	V_{EB}	typ h_{fe}	V_{CE}	I_C ma amp*	freq kc mc*	I_{CBO} μa ma*	V_{CE}				f_t $f_{\alpha b}$*
		T_A	T_C														
2N2783	PS	2.0	13	2.0	40	100	5.0	2.0	28	350	70*	.05	28	N	14	RF	210
2N2784	SY	0.3	0.5		6.0	15	4.0	80	0.5	10	DC	.005	5.0	NS	5	SW	1500
2N2784/46	SY	0.3			6.0	15	4.0	80	0.5	10	DC	.005	5.0	NS	2	SW	2000
2N2784/51	SY	0.3			6.0	15	4.0	80	0.5	10	DC	.005	5.0	NS	90	SW	2000
2N2786	AP	.26	1.8	.15	32	35		80	12	80	DC	10	10	PG	5	RF	350
2N2787	SR	0.8		0.8	35	70		40		150	DC	.01	50	NS	2	SW	400
2N2788	SR	0.8		0.8	35	75		75		150	DC	.01	50	NS	2	SW	400
2N2789	SR	0.8		0.8	35	75		185		150	DC	.01	50	NS	2	SW	400
2N2790	SR	0.5		0.8	35	75		40		150	DC	.01	50	NS	2	SW	400
2N2791	SR	0.5		0.8	35	75		75		150	DC	.01	50	NS	2	SW	400
2N2792	SR	0.5		0.8	35	75		185		150	DC	.01	50	NS	2	SW	400
2N2795	SR	.075		0.1	15	25	2.5	90	0.3	10	DC	3.0	15	PG	2	SW	550
2N2796	SR	.075		0.1	12	20	2.0	75	0.3	10	DC	3.0	15	PG	2	SW	550
2N2797	SR	.075		0.1	20	40	2.5	90	0.3	10	DC	2.0	15	PG	14	SW	225
2N2798	SR	.075		0.1	25	60	2.0	60	0.3	10	DC	3.0	15	PG	14	SW	200
2N2799	SR	.075		0.1	15	30	2.0	60	0.3	10	DC	3.0	15	PG	14	SW	200
2N2800	MO	0.8	3.0	0.8	35	50	5.0	60	10	150	DC			PS	2	SW	250
2N2801	MO	0.8	3.0	0.8	35	50	5.0	150	10	150	DC			PS	2	SW	250
2N2802	TI	0.5	1.0	.03	20	25	5.0	80	5.0	1.0	1.0	.01	25	PS		SW	
2N2803	TI	0.5	1.0	.03	20	25	5.0	80	5.0	1.0	1.0	.01	25	PS		SW	
2N2804	TI	0.5	1.0	.03	20	25	5.0	80	5.0	1.0	1.0	.01	25	PS		SW	
2N2805	TI	0.5	1.0	.03	20	25	5.0	70	5.0	1.0	1.0	.01	25	PS		SW	
2N2806	TI	0.5	1.0	.03	20	25	5.0	70	5.0	1.0	1.0	.01	25	PS		SW	
2N2807	TI	0.5	1.0	.03	20	25	5.0	70	5.0	1.0	1.0	.01	25	PS		SW	
2N2811	MH				60	80	8.0	35		5*	DC	0.1	60	NG	59	RF	45
2N2812	MH				60	80	8.0	75		5*	DC	0.1	60	NG	59	RF	55
2N2813	MH				80	120	8.0	35		5*	DC	0.1	60	NG	59	RF	45
2N2814	MH				80	120	8.0	75		5*	DC	0.1	60	NG	59	RF	55
2N2826	DR			1.5	15	25	15	135		100	DC			PG	71	GP	
2N2827	DR			1.5	30	40	20	135		100	DC			PG	71	GP	
2N2832	MO		85	20	50	80	2.0	3.5	10	1.0	5*	10	80	PG	71	GP	
2N2833	MO		85	20	75	120	2.0	3.5	10	1.0	5*	10	120	PG	71	GP	
2N2834	MO		85	20	100	140	2.0	3.5	10	1.0	5*	10	140	PG	71	GP	
2N2835	AP		16	1.0	32	32	10	50		1*	DC			PG	73	AF	10
2N2837	MO	0.5	1.8	0.8	35	50	5.0	60	10	150	DC			PS	2	SW	250
2N2838	MO	0.5	1.8	0.8	35	50	5.0	150	10	150	DC			PS	2	SW	250
2N2845	FS	.36	1.2		30	60	5.0	3.5	10	50	100*	0.2	30	NS	5	SW	350
2N2846	FS	0.8	3.0		20	60	5.0	3.5	10	50	100*	0.2	30	NS	5	SW	350
2N2847	FS	.36	1.2		30	60	5.0	3.5	10	50	100*	0.2	30	NS	5	SW	350
2N2848	FS	0.8	3.0		20	60	5.0	3.5	10	50	100*	0.2	30	NS	6	SW	350
2N2857	RC	0.2	0.3	.02	15	30	2.5	90	1.0	3.0	DC	.01	15	NS	7	RF	1300
2N2861	TI	0.3	1.0	0.1	20	25	5.0	75	5.0	1.0	1.0	.01	25	PS	5	GP	
2N2862	TI	0.3	1.0	0.1	20	25	5.0	50	5.0	1.0	1.0	.01	25	PS	5	GP	
2N2863	TI	0.8	3.0	1.0	25	60	5.0	2.5	10	50	100*	0.5	30	NS	5	RF	
2N2864	TI	0.8	3.0	1.0	25	60	5.0	2.5	10	50	100*	0.5	30	NS	5	RF	
2N2865	TI	0.2	0.3	.05	13	25	3.0	5.0	10	4.0	200*	.01	15	NS	2	RF	
2N2869	RC		30	10	50	60	10	90	2.0	1*	DC	500	30	PG	72	AF	.45
2N2870	RC		30	10	50	80	10	90	2.0	1*	DC	500	30	PG	72	AF	.45
2N2873	RC	.115		.01	25	35	0.3	125	6.0	1.0	1.0	12	12	PG	7	RF	375
2N2874	PS	2.0	13	2.0	40	75	4.0	2.5	28	350	30*	.01	28	N	2	RF	210
2N2877	MH				60	80	8.0	35		1*	DC	0.1	60	NG	62	RF	50
2N2878	MH				60		80	8.0	75	1*	DC	0.1	60	NG	62	RF	90
2N2879	MH				80	100	8.0	35		1*	DC	0.1	60	NG	62	RF	50
2N2880	MH				80	100	8.0	75		1*	DC	0.1	60	NG	62	RF	90
2N2883	FS	0.8	1.75	0.3	20	40	4.0	7.0	10	50	100*	0.5	20	NS	5	RF	600
2N2884	FS	0.8	1.75	0.3	20	40	4.0	7.0	10	50	100*	0.5	20	NS	5	RF	
2N2887	PS		25	1.2	80	100	4.0	2.0	28	350	70*			N		RF	210
2N2894	FS	.36	1.2		12	12	4.0	7.0	10	30	100*	.08	6.0	PS	5	SW	600
2N2895	RC	0.5	1.8	1.0	60	120	7.0	125	5.0	5.0	1.0	.002	60	NS	5	RF	200
2N2896	RC	0.5	1.8	1.0	95	140	7.0	170	5.0	5.0	1.0	.01	90	NS	5	RF	200
2N2897	RC	0.5	1.8	1.0	40	60	7.0	170	5.0	5.0	1.0	.05	60	NS	5	RF	200
2N2898	RC	0.5	1.8	1.0	60	120	7.0	125	5.0	5.0	1.0	.002	60	NS	5	RF	200
2N2899	RC	0.5	1.8	1.0	95	140	7.0	170	5.0	5.0	1.0	.01	90	NS	5	RF	200
2N2900	RC	0.5	1.8	1.0	40	60	7.0	170	5.0	5.0	1.0	.05	60	NS	5	RF	200
2N2904	MO	0.6	3.0	0.6	40	60	5.0	50	10	10	DC	.02	50	PS	2	SW	400
2N2904A	MO	0.6	3.0	0.6	60	60	5.0	65	10	10	DC	.01	50	PS	2	SW	400
2N2905	MO	0.6	3.0	0.6	40	60	5.0	150	10	10	DC	.02	50	PS	2	SW	350
2N2905A	MO	0.6	3.0	0.6	60	60	5.0	200	10	10	DC	.01	50	PS	2	SW	350
2N2906	MO	0.4	1.8	0.6	40	60	5.0	70	10	10	DC	.02	50	PS	2	SW	350
2N2906A	MO	0.4	1.8	0.6	60	60	5.0	80	10	10	DC	.01	50	PS	2	SW	350
2N2907	MO	0.4	1.8	0.6	40	60	5.0	150	10	10	DC	.02	50	PS	2	SW	350
2N2907A	MO	0.4	1.8	0.6	60	60	5.0	200	10	10	DC	.01	50	PS	2	SW	350
2N2909	GE	0.4	5.0	1.0	40	60	5.0	60	10	10	DC	.01	30	NS	2	SW	100
2N2912	MO		75	25	60	15	1.5	35	2.0	5*	1*	10*	15	PG	27	GP	
2N2938	RC	0.3	1.0	0.5	13	25	5.0	75	.35	10	DC			NS	5	SW	700

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TRANSISTOR obsolete*	MFG	MAXIMUM						GAIN				MAX	@				typ
		P_C (watts)		I_C amps	V_{CE}	V_{CB}	V_{EB}	typ h_{fe}	V_{CE}	I_C ma amp*	freq kc mc*	I_{CBO} μa ma*	V_{CE}	TYPE	BASE	USE	f_t $f_{\alpha b}$*
		T_A	T_C														
2N2939	BN		5.0	1.0	60	75	7.0	130	10	150	DC	.01	60	N	2	RF	
2N2940	BN		5.0	1.0	80	120	7.0	130	10	150	DC	.01	90	N	2	RF	
2N2941	BN		5.0	1.0	100	150	7.0	130	10	150	DC	.01	110	N	2	RF	
2N2942	SR	.15		0.1	25	50	2.5	90	0.3	10	DC	2.0	25	PG	14	SW	200
2N2947	MO		25	1.5	40	60	3.0	4.0	2.0	400	50*	1.0	50	NS	72	RF	200
2N2948	MO		25	1.5	25	60	2.0	4.0	2.0	400	50*	1.0	30	NS	72	RF	200
2N2949	MO	0.5	6.0	0.7	40	60	3.0	4.0	2.0	40	50*	0.1	50	NS	57	RF	200
2N2950	MO	0.7	6.0	0.7	40	60	3.0	4.0	2.0	40	50*	0.1	50	NS	57	RF	200
2N2951	MO	0.8	3.0	.25	40	60	5.0	10	10	10	50*	0.1	50	NS	2	RF	350
2N2952	MO	0.5	1.8	.25	40	60	5.0	10	10	10	50*	0.1	50	NS	2	RF	350
2N2953	RC	.12	0.3	.15	15	30	25	350	10	10	DC	5.0	20	PG	2	AF	2.0
2N2955	MO	.15	0.3	0.1	25	40	3.5	3.5	5.0	10	100*			PG	2	SW	350
2N2956	MO	.15	0.3	0.1	20	40	3.5	3.7	5.0	10	100*			PG	2	SW	375
2N2957	MO	.15	0.3	0.1	18	40	3.5	4.0	5.0	10	100*			PG	2	SW	400
2N2962	SR		3.0	0.3	30	40	1.5	2.0			160*	15	20	PG	59	RF	700
2N2963	SR		3.0	0.3	30	40	1.0	2.0			160*	15	20	PG	59	RF	700
2N2964	SR		3.0	0.3	25	30	1.5	2.0			160*	15	20	PG	59	RF	700
2N2965	SR		3.0	0.3	25	30	1.5	2.0			160*	15	20	PG	59	RF	700
2N2968	SR	.15		.05	10	30		45			DC	.01	15	PS	2	GP	35
2N2969	SR	.15		.05	10	30		45			DC	.01	15	PS	2	GP	35
2N2970	SR	.15		.05	20	30		30			DC	.01	15	PS	2	GP	25
2N2971	SR	.15		.05	20	30		30			DC	.01	15	PS	2	GP	25
2N2983	TI	1.0	15	3.0	80	155	8.0	45	30	100	1.0			NS	5	RF	
2N2984	TI	1.0	15	3.0	120	85	8.0	45	30	100	1.0			NS	5	RF	
2N2985	TI	1.0	15	3.0	80	155	8.0	85	30	100	1.0			NS	5	RF	
2N2986	TI	1.0	15	3.0	120	85	8.0	85	30	100	1.0			NS	5	RF	
2N2987	TI	1.0	15	1.0	80	95	7.0	50	10	100	1.0			NS	5	RF	55
2N2988	TI	1.0	15	1.0	100	155	7.0	50	10	100	1.0			NS	5	RF	55
2N2989	TI	1.0	15	1.0	80	95	7.0	100	10	100	1.0			NS	5	RF	55
2N2990	TI	1.0	15	1.0	100	155	7.0	100	10	100	1.0			NS	5	RF	55
2N2991	TI	2.0	15	1.0	80	95	7.0	50	10	100	1.0			NS	59	RF	55
2N2992	TI	2.0	15	1.0	100	155	7.0	50	10	100	1.0			NS	60	RF	55
2N2993	TI	2.0	15	1.0	80	95	7.0	100	10	100	1.0			NS	59	RF	55
2N2994	TI	2.0	15	1.0	100	155	7.0	100	10	100	1.0			NS	59	RF	55
2N2996	TI	.075		.05	10	15	3.0	200	6.0	4.0	DC	5.0	10	PG	2	RF	
2N2997	TI	.075		.05	15	30	0.3	200	12	4.0	DC	5.0	12	PG	2	RF	
2N2998	TI	.075		.02	12	15	0.3	200	6.0	3.0	1.0	5.0	10	PG	2	RF	
2N2999	TI	.075		.02	10	15	0.2	4.0	6.0	3.0	400*	5.0	10	PG	2	RF	
2N3013	FS	.36	1.2		15	40	5.0	55	0.5	100	DC			NS	5	SW	500
2N3014	FS	.36	1.2		20	40	5.0	55	1.0	100	DC			NS	5	SW	500
2N3021	MO		25	3.0	30	30	4.0	40	2.0	1*				P		SW	100
2N3022	MO		25	3.0	45	45	4.0	40	2.0	1*	DC			P		SW	100
2N3023	MO		25	3.0	60	60	4.0	40	2.0	1*	DC			P		SW	100
2N3024	MO		25	3.0	30	30	4.0	95	2.0	1*	DC			P		SW	100
2N3025	MO		25	3.0	45	45	4.0	95	2.0	1*	DC			P		SW	100
2N3026	MO		25	3.0	60	60	4.0	95	2.0	1*	DC			P		SW	100
2N3033	TI	0.3	1.0	0.2		100	4.0					5.0	85	NS	5	SW	
2N3034	TI	0.3	1.0	0.2		70	4.0					5.0	85	NS	5	SW	
2N3035	TI	0.3	1.0	0.2		50	4.0					5.0	85	NS	5	SW	
2N3036	TI	0.8	5.0	1.2	80	120	7.0	100	10	10	1.0	.01	60	NS	5	SW	
2N3037	TI	.36	1.0	0.5	70	120	7.0	75	10	10	1.0	.01	60	NS	91	SW	
2N3038	TI	.36	1.0	0.5	60	100	7.0	160	10	10	1.0	.01	60	NS	91	SW	
2N3039	TI	.36	1.0	0.5	35	50	5.0	70	10	10	1.0	.025	30	PS	91	SW	
2N3040	TI	.36	1.0	0.5	30	40	5.0	120	10	10	1.0	.025	30	PS	91	SW	
2N3043	TI	.35	1.4	.03	45	45	5.0	330	5.0	1.0	1.0	.01	45	NS	96	GP	
2N3044	TI	.35	1.4	.03	45	45	5.0	330	5.0	1.0	1.0	.01	45	NS	96	GP	
2N3045	TI	.35	1.4	.03	45	45	5.0	330	5.0	1.0	1.0	.01	45	NS	96	GP	
2N3046	TI	.35	1.4	.03	45	45	5.0	210	5.0	1.0	1.0	.01	45	NS	96	GP	
2N3047	TI	.35	1.4	.03	45	45	5.0	210	5.0	1.0	1.0	.01	45	NS	96	GP	
2N3048	TI	.35	1.4	.03	45	45	5.0	210	5.0	1.0	1.0	.01	45	NS	96	GP	
2N3049	TI	.35	1.4	.01	20	25	5.0	70	5.0	1.0	1.0	.01	25	PS	96	SW	
2N3050	TI	.35	1.4	.01	20	25	5.0	70	5.0	1.0	1.0	.01	25	PS	96	SW	
2N3051	TI	.35	1.4	.01	20	25	5.0	70	5.0	1.0	1.0	.01	25	PS	96	SW	
2N3052	TI	.35	1.4	0.2	15	35	5.0	70	1.0	10	DC	.025	20	NS	96	SW	
2N3053/40053	RC		5.0	0.7	40	60	5.0	125	10	150	DC	.25	30	NS	5	GP	
2N3054	RC		25	4.0	55	90	7.0	65	4.0	500	DC			NS	72	GP	1.0
2N3055	RC		115	15	70	100	7.0	40	4.0	4*	DC			NS	72	GP	0.7
2N3079	DR			10		200	5.0	30	5.0	5*	DC			NS	43	GP	2.0
2N3080	DR			10		300	5.0	30	5.0	5*	DC			NS	43	GP	2.0
2N3081	SY	0.6	2.0	0.6	50	70	6.0	60	10	150	DC	.01	50	PS	5	SW	300
2N3108	FS	0.8	5.0		60	100	7.0	40	10	0.1	DC			NS	5	SW	80
2N3110	FS	0.8	5.0		40	80	7.0	40	10	0.1	DC			NS	5	SW	80
2N3118	RC	1.0	4.0	0.5	60		4.0	35	28	25	1.0	1.0	30	NS	5	RF	380
2N3119	RC	1.0	4.0	0.5	80		4.0	125	10	100	DC	.05	60	NS	5	RF	500
2N3212	BN		12.5	5.0	80	100	2.0	60	2.0	3*	DC			PG	71	SW	0.6

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TRANSISTOR obsolete*	MFG	MAXIMUM						GAIN			MAX	@	TYPE	BASE	USE	typ
		P_C (watts)		I_C amps	V_{CE}	V_{CB}	V_{EB}	typ h_{fe}	V_{CE}	I_C ma amp*	freq kc mc*	I_{CBO} μa ma*	V_{CE}				f_t $f_{\alpha b}$*
		T_A	T_C														
2N3213	BN		12.5	5.0	60	80	2.0	60	2.0	3*	DC			PG	71	SW	0.6
2N3214	BN		12.5	5.0	40	60	2.0	60	2.0	3*	DC			PG	71	SW	0.6
2N3215	BN		12.5	5.0	30	40	2.0	55	2.0	3*	DC			PG	71	SW	0.6
2N3229	RC		17.5	2.5	60	105	4.0					.01	30	NS	57	RF	200
2N3262	RC	1.0	8.75	1.5	80	100	4.0	80	4.0	500	DC	0.1	30	NS	5	SW	35
2N3263	RC		82.5	25	90	150	7.0	50	3.0	15	DC	4*	80	NS	90	SW	40
2N3264	RC		82.5	25	60	120	7.0	50	3.0	15	DC	10*	60	NS	90	SW	40
2N3265	RC		125	25	90	150	7.0	50	3.0	15	DC	4*	80	NS	59	SW	40
2N3266	RC		125	25	60	120	7.0	50	3.0	15	DC	10*	60	NS	59	SW	40
2S001	TI	.15		.025		45	1.0	15		1.0	1.0			NS	2	GP	6.0*
2S003	TI	.15		.025		45	1.0	25		1.0	1.0			NS	2	GP	18*
2S004	TI	.15		.025		45	1.0	60		1.0	1.0			NS	2	GP	6.0*
2S005	TI	.125		.02		40	1.0	90		10	DC			NS	2	GP	37*
2S006	TI	.15		.025		45	1.0	25		1.0	1.0			NS	2	GP	6.0*
2S014	TI	.125		.02		40	1.0	35		10	DC			NS	2	GP	18*
2S017	TI	4.0		0.4	60	60	8.0	20		200	DC			NS	2	GP	5.0
2S018	TI	4.0		0.4	100	100	8.0	20		200	DC			NS	2	GP	5.0
2S019	TI	4.0		0.4	60	60	8.0	50		200	DC			NS	2	GP	5.0
2S020	TI	4.0		0.4	100	100	8.0	50		200	DC			NS	2	GP	5.0
2S024	TI		100	7.5	32	32	10	40		2*	DC			NS	78	GP	25
2S025	TI		100	7.5	60	60	10	40		2*	DC			NS	78	GP	25
2S026	TI		100	7.5	100	100	10	40		2*	DC			NS	78	GP	25
2S101	TI	0.3		.05	25	25	5.0	40		10	DC			NS	7	RF	140
2S102	TI	0.4		.05	45	60	4.5	35		5.0	1.0			NS	7	GP	45
2S103	TI	0.4		.05	45	60	4.5	60		5.0	1.0			NS	7	GP	90
2S104	TI	0.4		.05	45	60	4.5	120		5.0	1.0			NS	7	GP	90
2S131	TI	0.3		0.2	12	15	5.0	40		10	DC			NS	7	SW	350
2S301	TL	0.3		0.1	80	80	30	30		1.0	1.0			PS	2	GP	0.4
2S301	TX	.25		0.1	60	60	30	30	6.0	1.0	1.0	0.1	10	PS	2	GP	1.0
2S302	TL	0.3		0.1	40	40	20	35		1.0	1.0			PS	2	GP	0.6
2S302	TX	.25		0.1	25	25	20	45	6.0	1.0	1.0	0.1	10	PS	2	GP	1.0
2S303	TL	0.3		0.1	25	25	20	50		1.0	1.0			PS	2	GP	1.0
2S303	TX	.25		0.1	25	25	20	60	6.0	1.0	1.0	0.1	10	PS	2	GP	2.0
2S304	TL	0.3		0.1	15	15	15	75		1.0	1.0			PS	2	GP	3.0
2S304	TX	.25		0.1	15	15	15	90	6.0	1.0	1.0	0.1	10	PS	2	GP	3.0
2S305	TL	0.3		0.1	125	125	50	20		1.0	1.0			PS	2	GP	0.6
2S305	TX	.25		0.1	125	125	50	20	6.0	1.0	1.0	0.1	10	PS	2	GP	.75*
2S306	TI	.05		.01	6.0	6.0	6.0	50		1.0	DC			PS	2	GP	5.0
2S307	TI	.05		.01	15	15	15	50		1.0	DC			PS	2	GP	5.0
2S321	TI	0.3		.05	80	80	30	20		1.0	1.0			PS	14	GP	0.4
2S322	TI	0.3		.05	40	40	20	25		1.0	1.0			PS	14	GP	0.4
2S323	TI	0.3		.05	25	25	20	50		1.0	1.0			PS	14	GP	1.0
2S324	TI	0.3		.05	15	15	15	75		1.0	1.0			PS	14	GP	3.0
2S325	TI	0.3		.05	125	125	50	20		1.0	1.0			PS	14	GP	0.6
2S326	TI	.05		.01	6.0	6.0	6.0	50		1.0	DC			PS	14	GP	5.0
2S327	TI	.05		.01	15	15	15	50		1.0	DC			PS	14	GP	5.0
2S701	TI	0.1		.02	25	25	1.0	30		1.0	1.0			NS	2	GP	6.0*
2S702	TI	0.1		.02	25	25	1.0	55		1.0	1.0			NS	2	GP	9.5*
2S703	TI	0.1		.02	25	25	1.0	145		1.0	1.0			NS	2	GP	16*
2S711	TI	0.6		0.2	40	40	8.0	25		200	DC			NS	2	GP	4.0
2S712	TI	0.6		0.2	40	40	8.0	60		200	DC			NS	2	GP	4.0
2S721	TI		85	2.0	60	60	10	35		1*	DC			NS	78	GP	8.0*
2S722	TI		85	2.0	100	100	10	35		1*	DC			NS	78	GP	8.0*
2S723	TI		85	2.0	60	60	10	75		1*	DC			NS	78	GP	8.0*
2S724	TI		85	2.0	100	100	10	75		1*	DC			NS	78	GP	8.0*
2S731	TI	0.4		.05	30	30	3.0	35		5.0	1.0			NS	7	GP	50
2S732	TI	0.4		.05	30	30	3.0	60		5.0	1.0			NS	7	GP	50
2S733	TI	0.4		.04	30	30	3.0	130		5.0	1.0			NS	7	GP	50
2S741	TI	0.1		.025	30	30	1.0	10		3.0	1.0			NS	2	GP	
2S742	TI	0.1		.025	75	75	1.0	10		3.0	1.0			NS	2	GP	
2S743	TI	0.1		.025	115	115	1.0	10		3.0	1.0			NS	2	GP	
2S744	TI	0.1		.025	30	30	1.0	40		3.0	1.0			NS	2	GP	
2S745	TI	0.1		.025	75	75	1.0	40		3.0	1.0			NS	2	GP	
2S746	TI	0.1		.025	115	115	1.0	40		3.0	1.0			NS	2	GP	
2SA12	HI	.08		.015		16	0.5	50	6.0	1.0	455	6.0	12	PG	22	RF	
2SA13*	HI	.08		.015		12	0.5	50	6.0	1.0		10	12	PG	22	RF	
2SA14*	HI	.08		.015		16	0.5	45	6.0	1.0		6.0	12	PG	22	RF	4.0*
2SA15	HI	.08		.015		16	0.5	60	6.0	1.0	1.5*	6.0	12	PG	22	RF	12*
2SA16*	HI	.08		.015		12	0.5	60	6.0	1.0		10	12	PG	22	RF	12*
2SA17	HI	.08		.015		16	17	100	6.0	1.0	DC	6.0	12	PG	22	RF	14*
2SA18	HI	.08		.015		21	12	150	6.0	1.0	DC	7.0	25	PG	22	RF	14*
2SA28	TJ	.055		.005		18	5.0	75	6.0		1.0	8.0	6.0	PG	41	GP	
2SA30	KK	.08		.01		12	0.5	75	6.0	1.0	1.0	10	12	PG	22	GP	10*
2SA31	KK	.08		.01		12	0.5	50	6.0	1.0	1.0	10	12	PG	22	GP	5.0*
2SA35	KK	.08		.015		16	0.5	75	6.0	1.0	1.0	6.0	12	PG	22	GP	10*

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TRANSISTOR obsolete*	MFG	MAXIMUM P_C (watts) T_A	T_C	I_C amps	V_{CE}	V_{CB}	V_{EB}	GAIN typ h_{fe}	V_{CE}	I_C ma amp*	freq kc mc*	MAX I_{CBO} μa ma*	@ V_{CE}	TYPE	BASE	USE	typ f_t $f_{\alpha b}$*
2SA36	KK	.08		.015		16	0.5	50	6.0	1.0	1.0	6.0	12	PG	22	GP	5.0*
2SA37	TJ	.025		.005		18	12					10	12	PG	21	GP	7.0*
2SA38	TJ	.025		.005		18	12					10	12	PG	21	GP	10*
2SA39	TJ	.025		.005		18	12					10	12	PG	21	GP	5.5*
2SA40	KK	.08		.05		25	12	65	6.0	1.0	1.0	5.0	12	PG	22		5.0*
2SA40	TJ	.08		0.1		40	12	100	1.0	100	DC	10	12	PG	14	GP	1.0*
2SA41*	HI	.25		.04		35	20	45	6.0	1.0		6.0	12	PG	22	RF	6.0*
2SA42*	HI	.25		.04		45	20	45	6.0	1.0		6.0	12	PG	22	RF	6.0*
2SA43	KK	.08		.01		35	0.5	60	6.0	1.0	1.0	10	12	PG	22	RF	40*
2SA49	TJ	.06		.005		18	12	60	6.0		DC	10	18	PG	14	GP	9.0*
2SA50	TJ	.055		.024		18	12	100	1.0	24	DC	3.0	12	PG	14	GP	14*
2SA51	TJ	.06		.005		18	12					10	18	PG	14	GP	14*
2SA52	TJ	.06		.005		18	12					10	18	PG	14	GP	7.0*
2SA53	TJ	.06		.005		18	12					10	18	PG	14	GP	5.0*
2SA57	TJ	.055		.005		18	0.5	65	9.0		DC	10	18	PG	41	RF	85*
2SA58	TJ	.055		.005		18	0.5	170	6.0		.27	10	18	PG	41	RF	75*
2SA60	TJ	.055		.005		18	0.5	160	6.0		.27	10	18	PG	41	GP	55*
2SA64	KK	.08		.02		16	9.0	65	6.0	1.0	1.0	6.0	12	PG	22	GP	1.5*
2SA65	TJ	.15		0.2		18	12	80	0.5	100	DC	7.0	12	PG	14	GP	6.0*
2SA66	TJ	.15		0.2		18	12	80	0.5	100	DC	7.0	12	PG	14	GP	10*
2SA67	TJ	.15		0.2		18	12	80	0.5	100	DC	7.0	12	PG	14	GP	14*
2SA72	TJ	.055		.005		18	0.5	75	6.0		.27	10	18	PG	41	GP	40*
2SA73	TJ	.055		.005		18	0.5	65	6.0		.25	10	18	PG	41	GP	35*
2SA74	TJ	.12		.05		50	0.5	70	9.0		.25	8.0	12	PG	41	RF	70*
2SA75	TJ	.12		.05		20	0.5	70	9.0		.27	8.0	12	PG	41	GP	30*
2SA76	TJ	.055		.005		18	0.5	65	6.0		DC	15	18	PG	41	RF	130*
2SA77	TJ	.055		.005		18	0.5	65	6.0		DC	15	18	PG	41	RF	110*
2SA78	TJ	.125		0.4		40	2.0	80	1.0	400	DC	8.0	12	PG	41	GP	40*
2SA80	HI	.08		.01		20	0.5	90	9.0	1.0		10	12	PG	41	RF	20*
2SA81*	HI	.08		.01		20	0.5	80	9.0	10.		10	12	PG	41	RF	
2SA82*	HI	.08		.01		20	0.5	85	9.0	1.0		10	12	PG	41	RF	
2SA83*	HI	.08		.01		25	0.5	60	9.0	1.0		10	12	PG	41	RF	
2SA84*	HI	.08		.01		25	0.5	80	9.0	1.0		10	12	PG	41	RF	
2SA85*	HI	.08		.01		25	1.0	85	9.0	1.0		10	12	PG	41	RF	
2SA86*	HI	.225		.05		45	1.0	80	9.0	1.0		12	12	PG	41	RF	
2SA92	TJ	.055		.005		18	0.5	70	6.0		DC	10	18	PG	41	GP	50*
2SA93	TJ	.055		.005		18	0.5	170	6.0		DC	10	18	PG	41	GP	45*
2SA94*	HI	.08		.001		9.0	0.5	55	3.0	1.0		15	9.0	PG	41	RF	
2SA105	KK	.08		.01		6.0	0.5	50	3.0	1.0	1.0	10	6.0	PG	41	RF	75*
2SA106	KK	.08		.01		6.0	0.5	50	3.0	1.0	1.0	10	6.0	PG	41	RF	30*
2SA107	KK	.08		.01		6.0	0.5	40	3.0	1.0	1.0	10	6.0	PG	41	RF	20*
2SA108	KK	.08		.01		20	0.5	70	6.0	1.0	1.0	10	12	PG	41	RF	50*
2SA109	KK	.08		.01		20	0.5	60	6.0	1.0	1.0	10	12	PG	41	RF	45*
2SA110	KK	.08		.01		20	0.5	60	6.0	1.0	1.0	10	12	PG	41	RF	40*
2SA111	KK	.08		.01		20	0.5	40	6.0	1.0	1.0	10	12	PG	41	RF	30*
2SA112	KK	.08		.01		20	0.5	45	6.0	1.0	1.0	10	12	PG	41	RF	20*
2SA113	KK	.08		.01		34	1.0	45	6.0	1.0	1.0	7.0	12	PG	41	RF	20*
2SA114	KK	.08		.01		34	1.0	40	6.0	1.0	1.0	7.0	12	PG	41	RF	20*
2SA115	KK	.08		.01		34	1.0	60	6.0	1.0	1.0	5.0	12	PG	41	RF	30*
2SA116	KK	.08		.01		30	0.5	60	6.0	1.0	1.0	10	12	PG	41	RF	120*
2SA117	KK	.08		.01		30	0.5	40	6.0	1.0	1.0	10	12	PG	41	RF	110*
2SA118	KK	.08		.01		30	0.5	60	6.0	1.0	1.0	10	12	PG	41	RF	110*
2SA121	SC	.015		.002		15		24	6.0	1.0	1.0	8.0	15	PG	35	RF	100*
2SA122	SC	.015		.002		15		24	6.0	1.0	1.0	8.0	15	PG	35	RF	100*
2SA123	SC	.015		.002		15		24	6.0	1.0	1.0	8.0	15	PG	35	RF	100*
2SA124	SC	.015		.002		15		32	6.0	1.0	1.0	8.0	15	PG	35	RF	100*
2SA125	SC		15	.002	15	15		49	6.0	1.0	1.0	4.0	25	PG	35	RF	120*
2SA127	TJ	.15		.05		70	0.5					50	12	PG	41	GP	25*
2SA128	TJ	.17		0.6		40	2.0	35	1.0	600	DC	50	12	PG	41	GP	25*
2SA129	TJ	.17		0.6		40	2.0	70	1.0	600	DC	50	12	PG	41	GP	25*
2SA130*	HI	.08		.01		9.0	0.5	80	3.0	1.0		15	9.0	PG	41	RF	
2SA131*	HI	.08		.01		9.0	0.5	50	2.0	1.0		15	9.0	PG	41	RF	
2SA132*	HI	.08		.01		9.0	0.5	80	3.0	1.0		15	9.0	PG	41	RF	
2SA133*	HI	.08		.001		9.0	0.5	50	3.0	1.0		15	9.0	PG	41	RF	
2SA136	KK	.08		.01		6.0	0.5	75	3.0	1.0	1.0	10	6.0	PG	22	RF	10*
2SA137	KK	.08		.01		6.0	0.5	50	3.0	1.0	1.0	10	6.0	PG	22	GP	5.0*
2SA150	TJ	.05		.04		105	50	35	.25	5.0	DC	50	105	PG	14	GP	0.5*
2SA151*	HI	.08		.015		9.0	0.5	50	3.0	1.0		5.0	6.0	PG	22	RF	
2SA152*	HI	.08		.015		9.0	0.5	60	3.0	1.0		5.0	6.0	PG	22	RF	
2SA175	TJ	.055		.05		18	0.5	65	6.0		DC	12	18	PG	14	RF	85*
2SA208	HI	.12		0.4	15	20	12	50	0.3	200	DC	5.0	12	PG	2	SW	
2SA209	HI	.12		0.4	15	20	12	65	0.3	200	DC	5.0	12	PG	2	SW	
2SA210	HI	.12		0.4	15	20	12	85	0.3	200	DC	5.0	12	PG	2	SW	
2SA211	HI	.12		0.1	12	18	12	70	0.3	100	DC	10	12	PG	2	SW	
2SA212	HI	.12		0.1	15	25	12	65	0.3	100	DC	5.0	12	PG	2	SW	

2SA217 2SB77

TRANSISTOR obsolete*	MFG	MAXIMUM P_C (watts) T_A	T_C	I_C amps	V_{CE}	V_{CB}	V_{EB}	typ h_{fe}	GAIN V_{CE}	I_C ma amp*	freq kc mc*	MAX I_{CBO} μa ma*	@ V_{CE}	TYPE	BASE	USE	typ f_t $f_{\alpha b}$*
2SA217	HI	.12		0.1	12	25	12	65	0.3	100	DC	5.0	12	PG	2	SW	
2SA229	TJ	.075		.005		20	0.2					10	12	PG	7	GP	
2SA230	TJ	.075		.005		20	0.2	2.0	6.0		60*	10	12	PG	7	GP	
2SA231*	HI	2.0		0.4		40	12	60	6.0	70		50	30	PG	94	RF	
2SA232*	HI	2.0		0.4		30	12	90	6.0	70		50	30	PG	94	RF	
2SA233	HI	.08		.01		20	0.5	70	6.0	1.0	10*	30	20	PG	94	RF	700
2SA234	HI	.08		.01		20	0.5	70	6.0	1.0	10*	30	20	PG	94	RF	700
2SA235	HI	.08		.01		20	0.5	90	6.0	1.0	100*	30	20	PG	94	RF	9000
2SA236	TJ	.055		.005		18	0.5	45	6.0		DC	12	18	PG	41	GP	35*
2SA237	TJ	.055		.005		18	0.5	50	6.0		DC	12	18	PG	41	GP	35*
2SA239	TJ	.075		.005		20	0.2	2.0	6.0		100*	10	12	PG	7	GP	
2SA240	TJ	.075		.005			20	0.2				10	12	PG	7	GP	
2SA246	HI	0.1		.03		30	0.5	70	6.0	5.0		30	30	PG	94	RF	1.5*
2SA247	HI	0.1		.03	10	10	1.2	65	0.3	100	DC	5.0	10	PG	41	SW	
2SA248	TJ	.125		0.2		40	2.0	60	1.0	200	DC	8.0	12	PG	41	GP	40*
2SA254	KK	.055		.01		12	0.5	80	6.0	1.0	1.0	10	12	PG	22	GP	10*
2SA255	KK	.055		.01		12	0.5	50	6.0	1.0	1.0	10	12	PG	22	GP	5.0*
2SA256	KK	.055		.01		20	0.5	75	6.0	1.0	1.0	10	12	PG	22	RF	60*
2SA257	KK	.055		01		20	0.5	60	6.0	1.0	1.0	10	12	PG	22	RF	50*
2SA258	KK	.055		.01		20	0.5	45	6.0	1.0	1.0	10	12	PG	22	RF	40*
2SA259	KK	.055		.01		20	0.5	45	6.0	1.0	1.0	10	12	PG	22	RF	30*
2SA266	KK	.08		.01		20	0.5	75	6.0	1.0	1.0	10	12	PG	22	RF	60*
2SA267	KK	.08		.01		20	0.5	60	6.0	1.0	1.0	10	12	PG	22	RF	50*
2SA268	KK	.08		.01		20	0.5	45	6.0	1.0	1.0	10	12	PG	22	RF	40*
2SA269	KK	.08		.01		20	0.5	45	6.0	1.0	1.0	10	12	PG	22	RF	30*
2SA270	KK	.08		.01		9.0	0.5	75	3.0	1.0	1.0	10	6.0	PG	22	RF	50*
2SA271	KK	.08		.01		9.0	0.5	60	3.0	10.	1.0	10	6.0	PG	22	RF	30*
2SA272	KK	.08		.01		9.0	0.5	45	3.0	1.0	1.0	10	6.0	PG	22	RF	20*
2SA273	KK	.08		.01		34	1.0	45	6.0	1.0	1.0	7.0	12	PG	22	RF	40*
2SA274	KK	.08		.01		34	1.0	40	6.0	1.0	1.0	7.0	12	PG	22	RF	30*
2SA275	KK	.08		.01		34	1.0	60	6.0	1.0	1.0	5.0	12	PG	22	RF	45*
2SA276	TJ	.075		.03		15	2.0	60	0.5	10	DC	5.0	12	PG	7	SW	210
2SA277	TJ	.065		.04		18	12	85	1.0	24	DC	3.0	12	PG		GP	8.5*
2SA278	TJ	.065		.04		18	12	110	1.0	24	DC	3.0	12	PG		GP	20*
2SA282	TJ	.15		0.2		18	12	50	0.5	100	DC	7.0	12	PG		GP	6.0*
2SA283	TJ	.15		0.2		18	12	50	0.5	100	DC	7.0	12	PG		GP	10*
2SA284	TJ	.15		0.2		18	12	50	0.5	100	DC	7.0	12	PG		GP	14*
2SA288	HI	.08		.01		20	0.5	20	6.0	3.0	100*	30	20	PG	37	RF	1000
2SA289	HI	.08		.01		20	0.5	20	6.0	3.0	100*	30	20	PG	37	RF	1000
2SA290	HI	.08		.01		20	0.5	20	6.0	3.0	100*	30	20	PG	37	RF	1000
2SA304	TJ	.065		.04		18	12	95	6.0		DC	4.0	12	PG		GP	4.5*
2SA305	TJ	.065		.04		18	12	95	6.0		DC	4.0	12	PG		GP	10*
2SB34	KK	.25		.15		20	2.5	70	1.0	150	DC	14	12	NG	32	AF	
2SB37	KK	.15		.05		30	12	70	1.0	50	DC	14	30	PG	22	AF	
2SB38	KK	.25		.15		30	12	70	1.0	150	DC	16	30	PG	32	AF	
2SB39	KK	.05		.002		10	10	65	4.0	0.5	1.0	10	10	PG	22	AF	.85*
2SB41	KK		48	1.2		40	12					3*	40	PG	72	AF	
2SB42	KK		48	1.2		60	12					3*	60	PG	72	AF	
2SB43	TJ	.15		.05		25	12	70	1.0	50	DC	10	12	PG	14	AF	1.0*
2SB44	TJ	.08		.05		25	12	110	6.0		1.0	10	12	PG	14	AF	
2SB46	TJ	.08		.05		25	12	175	6.0		1.0	5.0	12	PG	14	GP	
2SB47	TJ	.08		.05		25	12	120	1.5		1.0	14	25	PG	14	AF	
2SB48	SC	.14		0.1		16		36	6.0	1.0	1.0	16	16	PG	48	AF	2.5*
2SB49	SC	.14		0.1		16		66	6.0	1.0	1.0	16	16	PG	48	AF	3.0*
2SB50	SC	.14		0.1		16		99	6.0	1.0	1.0	16	16	PG	48	AF	3.5*
2SB52	SC	0.2		0.2		20		66	6.0	1.0	1.0	16	20	PG	48	AF	3.0*
2SB51	SC	0.2		0.2		20		36	6.0	1.0	1.0	16	20	PG	48	AF	2.0*
2SB53	SC	0.2		.25	25	30	15	55	6.0	1.0	1.0	10	30	P	46	AF	3.0*
2SB54	TJ	.08		.05		25	12	140	6.0		1.0	14	25	PG	14	AF	1.0*
2SB55	TJ	.15		.05		60	12	80	1.5	50	DC	14	25	PG	14	AF	1.0*
2SB56	TJ	.15		.05		25	12	80	1.5	50	DC	14	25	PG	14	AF	1.0*
2SB61	KK	.15		.05		30	12	85	6.0	1.0	1.0	10	30	PG	22	AF	1.0*
2SB62	TJ		4.0	0.5		60	12	60	1.0	500	DC	70	12	PG	72	AF	0.4*
2SB63	TJ		4.0	0.5		32	12	60	1.0		DC	70	12	PG	72	AF	0.4*
2SB64	TJ		25	6.0		100	1.0	70	1.5	1*	DC	330	12	PG	72	AF	1.0*
2SB65	KK	.15		0.1		30	12	65	6.0	1.0	1.0	15	30	PG	22	GP	1.0*
2SB66	HI	.15		.07		30	12	75	6.0	1.0		14	30	PG	22	AF	
2SB67	HI	.35		.15		55	12	45	6.0	1.0		10	30	PG	16	AF	
2SB67A	HI	.35		.15		60	30	45	6.0	1.0		10	30	PG	16	AF	
2SB68	HI	.05		0.1	105	105	50	35	.35	5.0	DC	12	25	PG	2	GP	
2SB69	TJ		25	6.0		60	1.0	70	1.5	1*	DC	330	12	PG	72	AF	1.0*
2SB73	HI	.02		.002		10	10	80	4.0	0.5		7.0	12	PG	22	AF	
2SB75	HI	.15		.07		25	12	55	6.0	1.0		14	30	PG	22	AF	
2SB75A	HI	.15		.07		45	12	55	6.0	1.0		14	30	PG	22	AF	
2SB77	HI	.15		.07		25	12	85	1.5	50		14	30	P	25	GP	

2SB77A 2SB275

TRANSISTOR obsolete*	MFG	MAXIMUM						GAIN				MAX	@	TYPE	BASE	USE	typ
		P_C (watts)		I_C	V_{CE}	V_{CB}	V_{EB}	typ h_{fe}	V_{CE}	I_C ma amp*	freq kc mc*	I_{CBO} μa ma*	V_{CE}				f_t f_{α}*
		T_A	T_C	amps													
2SB77A	HI	.15		.07		45	12	85	1.5	50		25	45	PG	22	AF	
2SB80	HI		4.0	1.0		25	10					100	12	PG	72	GP	
2SB81	HI		2.0	0.5	60	80	12	60	2.0	100	DC	50	50	PG	72	SW	
2SB82	HI		2.0	0.5	60	100	12	65	2.0	100	DC	35	50	PG	72	SW	
2SB83*	HI		12	3.0		40	10					1*	30	PG	72	GP	
2SB84*	HI		12	3.0		60	10					1*	30	PG	72	GP	
2SB89	HI	.25		.15		25	12	65	1.0	150		16	30	PG	16	GP	
2SB90	TJ	.04		.005		18	12					14	18	PG	21	AF	1.0*
2SB91	TJ	.04		.03		18	12	70	1.0	30	DC	14	18	PG	21	AF	1.0*
2SB94	TJ	.15		.05		25	12	80	1.5	50	DC	14	25	PG	14	AF	1.0*
2SB97	TJ	.04		.005		18	12	70	6.0		1.0	14	18	PG	21	AF	
2SB120	KK	.15		.02		32	2.5	70	12	2.0	1.0	6.5	12	PG	22	AF	
2SB121	KK	.05		0.1		105	50	60	.35	5.0	DC	14	2.5	PG	22	GP	
2SB122	TJ		20	1.5		80	40	60	1.5	1*	DC	160	12	PG	72	GP	.25*
2SB124	TJ		40	15		60	25	70	1.5	15*	DC	1.2*	12	PG	79	GP	0.3*
2SB125	TJ		40	15		36	25	70	1.5	15*	DC	1.2*	12	PG	79	GP	0.3*
2SB131	KK		66	1.5		40	12					3*	40	PG	72	AF	
2SB132	KK		66	1.5		60	12					3*	60	PG	72	AF	
2SB140	SC		12	1.5	20	40	12	74	1.5	1*	DC	600	40	PG	73	AF	.75
2SB141	SC		12	1.5	40	60	12	74	1.5	1*	DC	600	60	PG	73	AF	.75
2SB142	SC		10	1.0		30		24	1.5	1*	DC	1*	30	PG	73	AF	.75
2SB143	SC		10	1.0		30		37	1.5	1*	DC	1*	30	PG	73	AF	.75
2SB144	SC		10	1.0		30		75	1.5	1*	DC	1*	30	PG	73	AF	.75
2SB145	SC		10	1.0		30		37	1.5	1*	DC	1*	30	PG	73	AF	.75
2SB146	SC		10	1.0		30		75	1.5	1*	DC	1*	30	PG	73	AF	.75
2SB148	TJ		40	15		80	25	70	1.5	15*	DC	1.2*	12	PG	79	GP	0.3*
2SB149	TJ		25	8.0		40	30	60	1.5	8*	DC	230	12	PG	72	GP	.25*
2SB151	KK		50	5.0		80	60	75	1.5	1*	DC	500	30	PG	72	GP	7.0*
2SB152	KK		50	5.0		100	60	75	1.5	1*	DC	500	30	PG	72	GP	7.0*
2SB155	HI	.15		0.3		16	2.5	40	4.0	1.0		14	12	PG	22	AF	
2SB156	HI	.15		0.3		16	2.5					14	12	PG	22	GP	
2SB156A	HI	.15		0.3		20	6.0					14	12	PG	22	GP	
2SB168	KK	.15		0.1		9.0	2.5	60	3.0	1.0	1.0	14	9.0	PG	22	AF	
2SB169	KK	.15		0.1		9.0	2.5	80	1.5	50	DC	14	9.0	PG	22	AF	
2SB180	KK		5.5	0.5		40	12	70	1.5	500	DC	1*	40	PG	71	AF	
2SB180A	KK		12	0.5		40	12					1*	40	PG	71	AF	
2SB181	KK		5.5	0.5		60	12	70	1.5	500	DC	1*	60	PG	71	AF	
2SB181A	KK		12	0.5		60	12					1*	60	PG	71	AF	
2SB183*	HI	.05		.02		12	2.5	55	0.5	.25		12	12	PG	55	AF	
2SB184*	HI	.05		.02		12	2.5					12	12	PG	55	GP	
2SB189	TJ	.25		.25		25	12	75	1.0	100	DC	14	25	PG	87	AF	1.0*
2SB199	KK	.25		0.3		12	2.5	80	1.0	150	DC	14	12	PG	32	AF	
2SB200	TJ	.225	0.5	0.4		32	12	75	1.0	150	DC	40	12	PG	14	AF	0.5*
2SB201	TJ	0.3		0.4		35	12	150	1.0	150	DC	30	12	PG		GP	0.5*
2SB202	SJ	16	80	30	75	100	40	100	1.5	15*	DC	5.0*	100	PG	72	AF	
2SB202	TJ	.225	0.5	0.4		32	12	140	1.0	150	DC	40	12	PG	14	AF	0.5*
2SB203	SJ	16	80	20	30	40	40	40	1.5	15*	DC	5.0*	40	PG	72	AF	.08
2SB204	SJ	16	80	30	30	40	40	100	1.5	15*	DC	5.0*	40	PG	72	AF	.08
2SB205	SJ	16	80	20	60	80	40	40	1.5	15*	DC	5.0*	80	PG	72	AF	.08
2SB206	SJ	16	80	30	60	80	40	100	1.5	15*	DC	5.0*	80	PG	72	AF	.08
2SB207	SJ	16	80	20	75	100	40	40	1.5	15*	DC	5.0*	100	PG	72	AF	.08
2SB208	SJ	16	80	30		100	40	100	1.5	15*	DC	5.0*	100	PG	72	AF	.08
2SB209	SJ	16	80	20	30	40	40	40	1.5	15*	DC	5.0*	40	PG	72	AF	.08
2SB210	SJ	16	80	30	30	40	40	100	1.5	15*	DC	5.0*	40	PG	72	AF	.08
2SB211	SJ	16	80	20	60	80	40	40	1.5	15*	DC	5.0*	80	PG	72	AF	.08
2SB212	SJ	16	80	30	60	80	40	100	1.5	15*	DC	5.0*	80	PG	72	AF	.08
2SB213	SJ	16	80	20	75	100	40	40	1.5	15*	DC	5.0*	100	PG	72	AF	.08
2SB214	SJ	16	80	30	75	100	40	100	1.5	15*	DC	5.0*	100	PG	72	AF	.08
2SB228*	HI		12	5.0	35	80	50					250	30	PG	72	GP	
2SB229*	HI		12	5.0	40	100	50					250	30	PG	72	GP	
2SB230*	HI		12	5.0	50	120	50					250	30	PG	72	GP	
2SB231	TJ		25	6.0		120	1.0	50	1.5	15*	DC	5.0*	120	PG	72	GP	1.5*
2SB235	TJ		60	15		80	25	105	1.5	15*	DC	1.2*	12	PG	43	GP	0.3*
2SB236	TJ		60	15		60	25	105	1.5	15*	DC	1.2*	12	PG	43	GP	0.3*
2SB237	TJ		60	15		36	25	105	1.5	15*	DC	1.2*	12	PG	43	GP	0.3*
2SB257	TJ	.06		.005		18	12	125	6.0		1.0	3.0	12	PG	14	AF	5.0*
2SB258	TJ		60	15		120	1.0	85	1.5	5*	DC	3.5*	12	PG	43	AF	1.5*
2SB259	TJ		60	15		80	1.0	85	1.5	5*	DC	3.5*	12	PG	43	AF	1.5*
2SB260	TJ		60	15		50	1.0	85	1.5	5*	DC	3.5	12	PG	43	AF	1.5*
2SB261	KK	.065		.03		20	2.5	45	6.0	1.0	1.0	12	12	PG	22	AF	
2SB262	KK	.065		.03		20	2.5	60	1.5	30	DC	12	12	PG	22	AF	
2SB263	KK	0.2		.15		20	2.5	65	1.0	150	DC	14	12	PG	22	AF	
2SB265	TJ	.17		0.1		40	12	62	1.0	100	DC	10	12	PG		GP	1.3*
2SB274	HI	12		6.0	40	120	1.5	50	1.5	1.0	DC	250	30	PG	72	GP	
2SB275	HI		50	6.0	105	120	1.5	40	1.5	4*	DC	1*	30	PG	72	SW	

2SB276 2SC167

TRANSISTOR obsolete*	MFG	MAXIMUM P_C (watts) T_A	MAXIMUM P_C (watts) T_C	MAXIMUM I_C amps	MAXIMUM V_{CE}	MAXIMUM V_{CB}	MAXIMUM V_{EB}	GAIN typ h_{fe}	GAIN V_{CE}	GAIN I_C ma amp*	GAIN freq kc mc*	MAX I_{CBO} μa ma*	@ V_{CE}	TYPE	BASE	USE	typ f_t f_{ab}*
2SB276	HI		50	10	105	120	1.5	35	1.2	10*	DC	1*	30	PG	72	SW	
2SB290	TJ	.065		.04		18	12	125	6.0		1.0	4.0	12	PG		GP	5.0*
2SB291	TJ	.15		.15		30	12	100	6.0		1.0	10	12	PG		GP	
2SB292	TJ	.15		.15		30	12	80	1.0	50	DC	10	12	PG		AF	
2SB292A	TJ	.15		.15		60	12	80	1.0	50	DC	10	12	PG		AF	
2SB296	TJ		35	10		130	3.0	50	1.5	10*	DC	330	12	PG	72	GP	1.5*
2SB300	TJ		35	10		100	1.0	60	1.5	5*	DC	330	12	PG	72	AF	
2SB301	TJ		35	10		60	1.0	60	1.5	5*	DC	330	12	PG	72	AF	
2SB302	HI	.02		.002		10	10	80	6.0	1.0	DC	6.0	12	PG	22	AF	12*
2SB306	TJ	.075		.02		105	50	60	.35	2.0	DC	10	105	PG		GP	0.8*
2SB318	KK		50	5.0	32	60	1.0	100	2.0	5*	DC	1*	40	PG	72	AF	50*
2SB319	KK		50	5.0	40	100	1.0	70	2.0	5*	DC	1*	40	PG	72	AF	60*
2SB320	KK		50	5.0	40	100	2.0	70	2.0	5*	DC	1*	40	PG	72	AF	60*
2SB321	TJ	.04		.05		12	12	100	1.5		1.0	4.0	12	PG	21	GP	
2SB322	TJ	.04		.05		12	12	50	1.5		1.0	4.0	12	PG	21	GP	
2SB323	TJ	.04		.05		12	12	100	1.5		1.0	4.0	12	PG	21	GP	
2SB331	HI		80	15	25	40	20	65	2.0	5*	DC			PG		SW	
2SB332	HI		80	15	45	60	40	65	2.0	5*	DC			PG		SW	
2SB333	HI		80	15	55	80	40	60	2.0	5*	DC			PG		SW	
2SB334	HI		80	15	60	100	60	35	2.0	5*	DC			PG		SW	
2SB361	HI		12	5.0		80	1.0	20	2.0	1*	DC			PG		RF	
2SB367	HI	4.0		1.0	20	25	12	60	1.5	500	DC	100	12	PG		GP	
2SB368	HI	4.0		1.0	35	45	12	110	1.5	500	DC	100	12	PG		GP	
2SB370	HI	0.2		0.5	18	25	12	100	1.0	150	DC	20	12	PG		GP	
2SC11	TJ	.055		.024		18	12	44	6.0	1.0	DC	9.0	12	NG	14	GP	6.0*
2SC12	TJ	0.7		.25		60	8.0	20	10	200	DC	10	30	NS		GP	
2SC13	TJ	.065		.04		18	12	48	1.0	24	DC	9.0	12	NG		GP	9.0*
2SC14	TJ	.065		.04		18	12	48	1.0	24	DC	9.0	12	NG		GP	15*
2SC16	TJ	0.2		.03		25	5.0	25	1.0	10	DC	2.5	15	NS	4	RF	175
2SC16A	TJ	0.2		.05		25	5.0	30	1.0	10	DC	1.0	15	NS	4	RF	175
2SC17	TJ	0.2		.03		25	5.0	3.0	10		100*	2.5	15	PG	4	GP	
2SC17A	TJ	0.2		.03		25	5.0	30	10		.27	1.0	15	PG	4	RF	
2SC18	TJ	0.2		.03		25	2.0	15	0.3	0.1	DC	0.1	6.0	NG	4	GP	
2SC19	TJ	0.6		0.4		40	5.0	50	10	150	DC	1.0	30	NS		RF	160
2SC20	TJ	0.6		0.4		40	3.0	3.0	10		100*	1.0	30	PG		RF	
2SC21	TJ		60	2.0		60	5.5	25	10	1*	DC	1*	30	NS	69	GP	6.0
2SC28	TJ	.055		.005		18	0.5	30	6.0		DC	8.0	6.0	PG	41	GP	
2SC41	SC		50	5.0		150		28	10	1*	DC	60*	150	NS	72	GP	20*
2SC42	SC		50	5.0		150		28	10	1*	DC	60*	150	NS	72	GP	20*
2SC43	SC		50	5.0		100		28	10	1*	DC	60*	100	NS	72	GP	20*
2SC44	SC		50	5.0		50		28	10	1*	DC	60*	50	NS	72	GP	20*
2SC70	TJ	0.8		.02		180	5.0	44	30		.27	1.0	30	PG		GP	
2SC71	TJ	.15		0.2		18	12	100	0.5	100	DC	7.0	12	NG		GP	10*
2SC72	TJ	.15		0.2		18	12	100	0.5	100	DC	7.0	12	NG		GP	14*
2SC73	SC	.03		.005		15		41	6.0	1.0	1.0	8.0	15	NG	32	RF	20*
2SC74	TJ	0.3		0.1		30	5.0	50	6.0		.27	4.0	15	PG		GP	
2SC75	SC	.03		.005		15		24	6.0	1.0	1.0	8.0	15	N	32	RF	10*
2SC76	SC	.03		.005		15		24	6.0	1.0	1.0	8.0	15	NG	32	RF	10*
2SC78	SC	.03		.005	15	15		49	6.0	1.0	1.0	4.0	25	NG	32	RF	20*
2SC89	HI	.12		0.2	15	25	20	35	0.2	20	DC	8.0	12	NG	2	SW	
2SC90	HI	.12		0.4	15	25	20	65	0.3	200	DC	8.0	12	NG	2	SW	
2SC91	HI	.12		0.4	12	25	20	120	0.3	200	DC	8.0	12	NG	2	SW	
2SC101	TJ		60	2.0		60	5.5	25	10	1*	DC	3.0*	20	NS	72	GP	
2SC102	TJ		100	7.0		50	5.0	30	5.0		DC	30*	50	PG	43	RF	20
2SC103	TJ	0.2		.05		25	5.0	30	1.0	10	DC	1.0	15	NS	2	RF	230
2SC104	TJ	0.2		.05		25	5.0	85	1.0		.27	1.0	15	PG	2	RF	
2SC110	HI	.75		0.3	20	40	5.0	5.0	6.0	10	20*	1.0	20	N	2	RF	180*
2SC111	HI	.75		0.3	25	50	5.0	6.0	6.0	10	20*	1.0	20	N	2	RF	180*
2SC112	HI	.75		0.3	20	30	5.0	5.0	6.0	10	20*	1.0	10	N	2	SW	180*
2SC113	HI	.75		0.3	25	50	5.0	5.0	6.0	10	20*	1.0	20	N	2	SW	180*
2SC114	HI	.75		0.3	20	50	5.0	5.0	6.0	10	20*	1.0	20	N	2	SW	80*
2SC116	HI	.75		0.5	25	50	5.0	6.0	6.0	10	20*	1.0	20	N	2	RF	
2SC117	HI		13	0.6	50	75	5.0	5.6	15	60	20*	5.0	40	N	94	SW	
2SC118	HI		13	0.6	60	80	5.0	6.0	15	60	20*	5.0	40	N	94	RF	120
2SC119	HI		13	0.6	50	75	5.0	6.0	15	60	20*	5.0	40	N	94	RF	130
2SC150	HI	.75		0.1		30	5.0	50	6.0	10		10	20	NS	2	RF	100*
2SC151	HI	.75		0.1		40	5.0	50	6.0	10		10	20	NS	2	RF	130*
2SC152	HI	.75		0.1		60	5.0	50	6.0	10		10	20	NS	2	RF	160*
2SC153	HI	.75		0.1		120	40	40	10	10	20	1.0	120	NS	2	RF	350
2SC157	HI	.125				20	1.0	40	6.0	2.0		1.0	12	NS	2	RF	
2SC158	HI	.125		.02		20	1.0	50	6.0	2.0		1.0	12	NS	2	RF	
2SC159	HI	.125		.02		20	1.0	60	6.0	2.0		1.0	12	NS	2	RF	
2SC160	HI	.125		.02		20	1.0	80	6.0	2.0		10.	12	NS	2	RF	
2SC166	HI	0.2		.03	30	30	5.0	70	6.0	1.0		0.1	20	NS	4	GP	20*
2SC167	HI	0.2		.03	45	55	5.0	75	12	3.0	DC	0.1	20	NS	4	SW	20*

TRANSISTOR obsolete*	MFG	MAXIMUM						GAIN			MAX	@	TYPE	BASE	USE	typ
		P_C (watts)		I_C	V_{CE}	V_{CB}	V_{EB}	typ h_{fe}	V_{CE}	I_C ma amp*	freq kc mc*	I_{CBO} μa ma*	V_{CE}				f_t $f_{\alpha b}$*
		T_A	T_C	amps													
2SC170	KK	.11		.05		25	3.0	60	6.0	10	1.0	0.5	20	NS	2	RF	250
2SC171	KK	0.2		.05		25	3.0	60	6.0	10	1.0	0.5	20	NS	2	RF	350
2SC172	KK	0.3	1.0	.05		25	5.0	60	6.0	10	1.0	0.1	20	NS	2	RF	350
2SC179	HI	.12		0.2	15	25	20	50	20	20	DC	8.0	12	NG	22	SW	7*
2SC180	HI	.12		0.4	15	25	20	65	200	200	DC	8.0	12	NG	22	SW	12*
2SC181	HI	.12		0.4	12	25	20	115	200	200	DC	8.0	12	NG	22	SW	20*
2SC191	SC	.25		.01		60		18	20	1.0	1.0	2.0	60	NS	2	GP	50*
2SC192	SC	.25		.01		60		18	20	1.0	1.0	2.0	60	NS	2	GP	10*
2SC193	SC	.25		.01		60		18	20	1.0	1.0	2.0	60	NS	2	GP	30*
2SC194	SC	.25		.01		60		18	20	1.0	1.0	2.0	60	NS	2	GP	50*
2SC195	SC	.25		.01		30		18	20	1.0	1.0	1.0	30	NS	2	GP	10*
2SC196	SC	.25		.01		30		18	20	1.0	1.0	1.0	30	NS	2	GP	30*
2SC197	SC	.25		.01		30		18	20	1.0	1.0	1.0	30	NS	2	GP	50*
2SC677	SC	.03		.005		15		20	6.0	1.0	1.0	8.0	15	N	32	GP	10*
2SD33	KK	.15		.05		20	2.5	70	1.0	50	DC	14	12	NG	22	AF	
2SD37	KK	.15		.06		30	12	70	1.0	50	DC	14	30	NG	22	AF	
2SD43	TJ	.11		.05		25	12	70	1.0	50	DC	14	12	NG	14	AF	1.0*
2SD44	TJ	.08		.05		30	12	85	6.0	1.0	.27	14	12	NG	14	AF	1.0*
2SD61	SC	0.1		0.1	12	30	10	42	6.0	1.0	1.0	20	40	NG	32	AF	1.0*
2SD62	SC	0.1		0.1	12	30	10	42	6.0	1.0	1.0	20	40	NG	32	GO	1.0*
2SD63	SC	0.1		0.1		25		45	1.0	50	DC	10	25	NG	32	AF	1.0*
2SD64	SC	.05		.05		25		76	6.0	1.0	1.0	15	25	NG	32	AF	1.0*
2SD65	SC	.08		.05		25		43	6.0	1.0	1.0	15	25	NG	32	AF	1.0*
2SD66	SC	.08		.05		25		23	6.0	1.0	1.0	15	25	NG	32	AF	0.8*
2SD75	HI	.15		0.1		25	12	40	6.0	1.0		14	25	NG	22	AF	
2SD75A	HI	.15		0.1		45	12	40	6.0	1.0		14	25	NG	22	AF	
2SD77	HI	.15		0.1		25	12					14	25	NG	22	GP	
2SD120	HI	1.0		1.0	40	60	12	55	4.0	200	DC	10	30	NG	2	GP	
2SD121	HI	1.0		1.5	55	100	12	55	4.0	200	DC	10	30	NS	2	GP	
2SD122	HI		7.0	3.0	40	60	12	55	4.0	750	DC	15	30	NS	94	GP	
2SD123	HI		7.0	3.0	55	100	12	55	4.0	750	DC	15	30	NS	94	GP	
2SD124	HI		21	6.0	40	60	10	40	4.0	1.5*	DC	25	30	NS	94	GP	
2SD125	HI		21	6.0	55	100	10	40	4.0	1.5*	DC	25	30	NS	72	GP	
2SD191	TJ	.15		.15		30	12	100	6.0	1.0	.27	14	12	NG		GP	2.0*
2SD192	TJ	.15		.15		30	12	75	1.0	50	DC	14	12	NG		GP	2.0*
2SD193	TJ	.25		0.4		35	12	100	1.0	24	DC	35	12	NG		GP	
2SD194	TJ	.25		0.4		32	12	75	1.0	150	DC	40	12	NG		GP	1.0*
2T64	SC	.05		.05		25		76	6.0	1.0	1.0	15	25	NG	32	AF	1.0*
2T65	SC	.08		.05		25		43	6.0	1.0	1.0	15	25	NG	32	AF	1.0*
2T66	SC	.08		.05		25		23	6.0	1.0	1.0	15	25	NG	32	AF	0.8*
2T69	SC	0.1		0.1		25		45	1.0	50	DC	10	25	NG	32	AF	1.0*
2T73	SC	.03		.005		15		41	6.0	1.0	1.0	8.0	15	NG	32	RF	20*
2T75	SC	.03		.005		15		24	6.0	1.0	1.0	8.0	15	NG	32	RF	10*
2T76	SC	.03		.005		15		24	6.0	1.0	1.0	8.0	15	NG	32	RF	10*
2T77	SC	.03		.005		15		20	6.0	1.0	1.0	8.0	15	NG	32	GP	10*
2T78	SC	.03		.005	15	15		49	6.0	1.0	1.0	4.0	25	NG	32	RF	20*
2T201	SC	.015		.002		15		24	6.0	1.0	1.0	8.0	15	PG	32	RF	100*
2T203	SC	.015		.002		15		32	6.0	1.0	1.0	8.0	15	PG	32	RF	100*
2T205A	SC		15	.002	15	15		49	6.0	1.0	1.0	4.0	25	PG	32	RF	120*
2T311	SC	.14		0.1		16		36	6.0	1.0	1.0	16	16	PG	48	AF	2.5*
2T312	SC	.14		0.1		16		36	6.0	1.0	1.0	16	16	PG	48	AF	2.5*
2T313	SC	.14		0.1		16		66	6.0	1.0	1.0	16	16	PG	48	AF	3.0*
2T314	SC	.14		0.1		16		66	6.0	1.0	1.0	16	16	PG	48	AF	3.0*
2T315	SC	.14		0.1		16		99	6.0	1.0	1.0	16	16	PG	48	AF	3.5*
2T321	SC	0.2		0.2		20		36	6.0	1.0	1.0	16	20	PG	48	AF	2.0*
2T322	SC	0.2		0.2		20		36	6.0	1.0	1.0	16	20	PG	48	AF	2.0*
2T323	SC	0.2		0.2		20		66	6.0	1.0	1.0	16	20	PG	48	AF	3.0*
2T324	SC	0.2		0.2		20		66	6.0	1.0	1.0	16	20	PG	48	AF	3.0*
2T383	SC	0.2		.25	25	30	15	55	6.0	1.0	1.0	10	30	PG	48	AF	3.0*
2T681	SC	0.1		0.1	12	30	10	42	6.0	1.0	1.0	20	40	NG	32	AF	1.0*
2T682	SC	0.1		0.1	12	30	10	42	6.0	1.0	1.0	20	40	NG	32	GP	1.0*
2T3011	SC		12	1.5	20	40	12	74	1.5	1*	DC	600	40	PG	73	AF	
2T3021	SC		12	1.5	40	60	12	74	1.5	1*	DC	600	60	PG	71	AF	
2T3030	SC		10	1.0		30		24	1.5	1*	DC	1*	30	PG	73	AF	
2T3031	SC		10	1.0		30		37	1.5	1*	DC	1*	30	PG	73	AF	
2T3032	SC		10	1.0		30		37	1.5	1*	DC	1*	30	PG	73	AF	
2T3033	SC		10	1.0		30		75	1.5	1*	DC	1*	30	PG	73	AF	
2T3041	SC		10	1.0		30		37	1.5	1*	DC	1*	30	PG	73	AF	
2T3042	SC		10	1.0		30		37	1.5	1*	DC	1*	30	PG	73	AF	
2T3043	SC		10	1.0		30		75	1.5	1*	DC	1*	30	PG	73	AF	
3N34	TI	.125		.02	30	30	1.0	25	20		1.0	0.4	20	NS	38	RF	80
3N35	TI	.125		.02	30	30	1.0	25	20		1.0	0.4	20	NS	38	RF	120
3N45	MH		75	12	35	60	28	55	2.0	5*	DC	200	2.0	PG	39	GP	.75
3N46	MH		75	12	50	80	28	45	2.0	5*	DC	200	2.0	PG	39	GP	.45
3N47	MH		75	12	25	40	28	50	2.0	5*	DC	200	2.0	PG	39	GP	.75

TRANSISTOR obsolete*	MFG	MAXIMUM						GAIN			MAX	@	TYPE	BASE	USE	typ
		P_C (watts)		I_C amps	V_{CE}	V_{CB}	V_{EB}	typ h_{fe}	V_{CE}	I_C ma amp*	freq kc mc*	I_{CBO} μa ma*	V_{CE}				f_t, $f_{\alpha b}$*
		T_A	T_C														
3N48	MH		75	12	40	60	28	45	2.0	5*	DC	200	2.0	PG	39	GP	.45
3N49	MH		94	15	35	60	28	50	2.0	5*	DC	200	2.0	PG	44	GP	.75
3N51	MH		94	15	25	40	28	50	2.0	5*	DC	200	2.0	PG	44	GP	.75
3N52	MH		94	15	40	60	28	45	2.0	5*	DC	200	2.0	PG	44	GP	.45
3TX002	BR		60	5.0		100	5.0	50	0.5	5*	DC	10	80	NS	72	RF	250
3TX003	BR		45	5.0		100	5.0	25	0.5	5*	DC	10	80	NS	72	RF	250
3TX004	BR		45	5.0		60	3.0	25	0.5	5*	DC	10	50	NS	72	RF	250
4C28	GE	.15		.025	30	40	2.0	15	5.0	1.0	1.0	2.0	30	NS	2	GP	12*
4C29	GE	.15		.025	30	40	2.0	30	5.0	1.0	1.0	2.0	30	NS	2	GP	12*
4C30	GE	.15		.025	30	40	2.0	55	5.0	1.0	1.0	2.0	30	NS	2	GP	12*
4C31	GE	.15		.025	30	40	2.0	115	5.0	1.0	1.0	2.0	30	NS	2	GP	12*
4C43	GE	0.6		.06	50	80	1.0	20	5.0	3.0	DC	2.0	50	NS	2	SP	
4D20	GE	.15		.025	24	40	1.5	35	5.0	10	DC	1.0	12	NS	2	GP	
4D21	GE	.15		.025	24	40	1.5	90	5.0	10	DC	1.0	12	NS	2	GP	
4D22	GE	.15		.025	24	40	1.5	85	5.0	10	DC	1.0	12	NS	2	GP	
4D24	GE	.125		.025	15	15	1.0	35	5.0	10	DC	1.0	15	NS	2	GP	
4D25	GE	.125		.025	15	15	1.0	90	5.0	10	DC	1.0	15	NS	2	GP	
4D26	GE	.125		.025	15	15	1.0	190	5.0	10	DC	1.0	15	NS	2	GP	
7A30	GE	1.0	5.0		30	50	5.0	24	10	200	DC	1.0	30	NS	4	GP	15*
7A31	GE	1.0	5.0		30	50	5.0	60	10	200	DC	1.0	30	NS	4	GP	15*
7A32	GE	1.0	5.0		30	50	5.0	150	10	200	DC	1.0	30	NS	4	GP	15*
7B1	GE	2.0	15		60	80	10	25	30	30	1.0	50	80	NS	75	GP	20*
7B2	GE	2.0	15		60	80	10	60	30	30	1.0	50	80	NS	75	GP	20*
7C1	GE	1.0	15		60	80	10	25	30	30	1.0	50	80	NS	93	GP	20*
7C2	GE	1.0	15		60	80	10	60	30	30	1.0	50	80	NS	93	GP	20*
7C3	GE	1.0	15		100	120	10	25	30	30	1.0	50	120	NS	93	GP	20*
7D1	GE	1.0	15		60	80	10	25	30	30	1.0	50	80	NS	94	GP	20*
7D2	GE	1.0	15		60	80	10	60	30	30	1.0	50	80	NS	94	GP	20*
7D3	GE	1.0	15		100	120	10	25	30	30	1.0	50	120	NS	94	GP	20*
7E1	GE	1.0	15		60	80	10	25	30	30	1.0	50	80	NS	95	GP	20*
7E2	GE	1.0	15		60	80	10	60	30	30	1.0	50	80	NS	95	GP	20*
7E3	GE	1.0	15		100	120	10	25	30	30	1.0	50	120	NS	95	GP	20*
7F1	GE	1.0	7.0		60	80	10	25	30	30	1.0	50	80	NS	57	GP	20*
7F2	GE	1.0	7.0		60	80	10	60	30	30	1.0	50	80	NS	57	GP	20*
7F3	GE	1.0	7.0		100	120	10	25	30	30	1.0	50	120	NS	57	GP	20*
7F4	GE	1.0	7.0		100	120	10	60	30	30	1.0	50	120	NS	57	GP	20*
7G1	GE	1.5	15		60	80	10	25	30	30	1.0	50	80	NS	57	GP	20*
7G2	GE	1.5	15		60	80	10	60	30	30	1.0	50	80	NS	57	GP	20*
7G3	GE	1.5	15		100	120	10	25	30	30	1.0	50	120	NS	57	GP	20*
7G4	GE	1.5	15		100	120	10	60	30	30	1.0	50	120	NS	57	GP	20*
10B551	GE	0.1	2.5		15	40	5.0	7.0	10	20	100*	.05	15	NS	92	RF	500
10B553	GE	0.1	2.5			25	3.0	5.0	10	10	100*	0.5	15	NS	92	RF	400
10B556	GE	0.1	2.5		15	25	5.0	5.0	10	10	100*	0.5	15	NS	92	RF	400
10C573	GE	0.1	2.5		45	45		5.0	15	10	100*	0.2	30	NS	92	RF	400
10C574	GE	0.1	2.5		45	45		5.0	15	10	100*	0.2	30	NS	92	RF	400
10T2*	SF	.15		.025	30	30								N	2	GP	
11B551	GE	0.1	4.0		28	60	5.0	5.0	10	50	20*	0.5	30	NS	92	RF	80
11B552	GE	0.1	4.0		28	60	5.0	6.0	10	50	20*	0.5	30	NS	92	RF	100
11B554	GE	0.1	4.0		28	60	7.0	7.0	10	50	20*	.025	40	NS	92	RF	120
11B555	GE	0.1	4.0		28	60	7.0	7.0	10	50	20*	.025	40	NS	92	RF	120
11B556	GE	0.1	4.0		80	100	7.0	5.0	10	50	20*	.025	40	NS	92	RF	100
11B560	GE	0.1	4.0		60	100	5.0	6.0	10	50	20*	0.5	30	NS	92	RF	100
11C1B1	GE	1.5	5.0	1.0	40	60	5.0	150	10	10	DC	.01	30	NS	75	SW	100
11C1F1	GE	1.15	3.1	1.0	40	60	5.0	150	10	10	DC	.01	30	NS	57	SW	100
11C3B1	GE	1.5	5.0	1.0	50	80	5.0	60	10	10	DC	.01	60	NS	75	SW	100
11C3F1	GE	1.15	3.1	1.0	50	80	5.0	60	10	10	DC	.01	60	NS	57	SW	100
11C5B1	GE	1.5	5.0	1.0	40	60	5.0	30	10	10	DC	.01	30	NS	75	SW	100
11C5F1	GE	1.15	3.1	1.0	40	60	5.0	30	10	10	DC	.01	30	NS	57	SW	100
11C7B1	GE	1.5	5.0	1.0	25	45	5.0	40	10	150	DC	0.1	30	NS	75	SW	100
11C7F1	GE	1.15	3.1	1.0	25	45	5.0	40	10	150	DC	0.1	30	NS	57	SW	100
11C10B1	GE	1.5	5.0	1.0	80	120	7.0	60	10	10	DC	.01	60	NS	75	SW	100
11C10F1	GE	1.15	3.1	1.0	80	120	7.0	60	10	10	DC	.01	60	NS	57	SW	100
11C11B1	GE	1.5	5.0	1.0	40	60	5.0	60	10	10	DC	.01	30	NS	75	SW	100
11C11F1	GE	1.15	3.1	1.0	40	60	5.0	60	10	10	DC	.01	30	NS	57	SW	100
11C201B20	GE	1.0	5.0	1.0	40	60	5.0	150	10	10	DC	.01	30	NS		SW	100
11C203B20	GE	1.0	5.0	1.0	50	80	5.0	60	10	10	DC	.01	60	NS		SW	100
11C205B20	GE	1.0	5.0	1.0	40	60	5.0	30	10	10	DC	.01	30	NS		SW	100
11C207B20	GE	1.0	5.0	1.0	25	45	5.0	40	10	150	DC	0.1	30	NS		SW	100
11C210B20	GE	1.0	5.0	1.0	80	120	7.0	60	10	10	DC	.01	60	NS		SW	100
11C211B20	GE	1.0	5.0	1.0	40	60	5.0	60	10	10	DC	.01	30	NS		SW	100
11C551	GE	0.1	4.0		40	60	5.0	5.0	10	50	20*	.025	30	NS	92	RF	100
11C553	GE	0.1	4.0		40	60	7.0	5.0	10	50	20*	.025	30	NS	92	RF	100
11C557	GE	0.1	4.0		25	45	5.0	5.0	10	50	20*	.05	30	NS	92	RF	100
11C702	GE	0.3	1.0	1.0	40	60	5.0	150	10	10	DC	.01	30	NS	90	SW	100
11C704	GE	0.3	1.0	1.0	50	80	8.0	60	10	10	DC	.01	60	NS	90	SW	100

TRANSISTOR obsolete*	MFG	MAXIMUM P_C (watts) T_A	MAXIMUM P_C (watts) T_C	MAXIMUM I_C amps	MAXIMUM V_{CE}	MAXIMUM V_{CB}	MAXIMUM V_{EB}	GAIN typ h_{fe}	GAIN V_{CE}	GAIN I_C ma amp*	GAIN freq kc mc*	MAX I_{CBO} μa ma*	@ V_{CE}	TYPE	BASE	USE	typ f_t $f_{\alpha b}$*
11C710	GE	0.3	1.0	1.0	80	120	7.0	60	10	10	DC	.01	60	NS	90	SW	100
11T2*	SF	.15		.025	30	30								N	2	GP	
12T2*	SF	.15		.025	30	30								N	2	GP	
BCZ10	AP	.25		.035	25			25		1.0		.001	10	PS	34	GP	1.0
31N2	SP	0.5	1.8		60	80	6.0	65	5.0	5.0	1.0	.005	50	N	2	RF	100
32N2	SP	0.5	1.8		60	80	8.0	130	5.0	5.0	1.0	.005	50	N	2	RF	100
34N2	SP	0.5	1.8		80	125	8.0	65	5.0	5.0	1.0	.005	80	N	2	RF	100
35N2	SP	0.5	1.8		80	125	8.0	130	5.0	5.0	1.0	.005	80	N	2	RF	100
38N2	SP	0.5	1.8		60	60	8.0	45	5.0	1.0	1.0	.005	45	N	2	RF	100
39N2	SP	0.5	1.8		60	60	8.0	57	5.0	1.0	1.0	.005	45	N	2	RF	100
40N2	SP	0.5	1.8		60	60	8.0	185	5.0	1.0	1.0	.005	45	N	2	RF	100
41N2	SP	0.5	1.8		45	60	6.0	135	5.0	1.0	1.0	.002	45	N	2	RF	100
42N2	SP	0.5	1.8		45	60	6.0	350	5.0	1.0	1.0	.002	45	N	2	RF	100
64T1	SF	.15		0.2	20	30	20	85	1.0	10	DC			PG	2	GP	8.0
65T1	SF	.15		0.2	20	30	20	85	1.0	10	DC			PG	2	GP	10
101A	MO	.15		0.1	6.0	15	5.0	40	1.0	400	DC	10	15	PG	2	SW	
101B	MO	.15		0.1	6.0	15	5.0	40	1.0	400	DC	10	15	PG	2	SW	
101M	MO	.15		0.1	6.0	15	5.0	40	1.0	400	DC	10	15	PG	2	SW	
109UA	WS		200	20	50	50	15		12	5*	1.0	15*	50	NS	54	SW	.014
109UB	WS		200	20	100	100	15	14	12	5*	1.0	1.5*	100	NS	54	SW	.014
109UC	WS		200	20	150	150	15	14	12	5*	1.0	1.5*	150	NS	54	SW	.014
109UD	WS		200	20	200	200	15	14	12	5*	1.0	1.5*	200	NS	54	SW	.014
109WA	WS		200	20	50	50	15	21	12	5*	1.0	1.5*	50	NS	54	SW	.014
109WB	WS		200	20	100	100	15	21	12	5*	1.0	1.5*	100	NS	54	SW	.014
109WC	WS		200	20	150	150	15	21	12	5*	1.0	1.5*	150	NS	54	SW	.014
109WD	WS		200	20	200	200	15	21	12	5*	1.0	1.5*	200	NS	54	SW	.014
109XA	WS		200	20	50	50	15	27	12	5*	1.0	1.5*	50	NS	54	SW	.016
109XB	WS		200	20	100	100	15	27	12	5*	1.0	1.5*	100	NS	54	SW	.016
109XC	WS		200	20	150	150	15	27	12	5*	1.0	1.5*	150	NS	54	SW	.016
109XD	WS		200	20	200	200	15	27	12	5*	1.0	1.5*	200	NS	54	SW	.016
130-04	WS		120	8.0	40		10	30	4.0	5*	DC			NS	54	SW	2.0
130-06	WS		120	8.0	60		10	30	4.0	5*	DC			NS	54	SW	2.0
130-08	WS		120	8.0	80		10	30	4.0	5*	DC			NS	54	SW	2.0
130-10	WS		120	8.0	100		10	30	4.0	5*	DC			NS	54	SW	2.0
146T1	SF		40	3.0	30	40	20	40	5.0	1*	DC	1*	40	PG	72	GP	0.2
147T1	SF		40	3.0	40	60	30	40	5.0	1*	DC	1*	60	PG	72	GP	0.2
151-04	WS		100	6.0	40	80	25	20	12	1*	1.0	2*	40	NS	54	SW	.02
151-05	WS		100	6.0	50	100	25	20	12	1*	1.0	2*	50	NS	54	SW	.02
151-06	WS		100	6.0	60	120	25	20	12	1*	1.0	2*	60	NS	54	SW	.02
151-07	WS		100	6.0	70	140	25	20	12	1*	1.0	2*	70	NS	54	SW	.02
151-08	WS		100	6.0	80	160	25	20	12	1*	1.0	2*	80	NS	54	SW	.02
151-09	WS		100	6.0	90	180	25	20	12	1*	1.0	2*	90	NS	54	SW	.02
151-10	WS		100	6.0	100	200	25	20	12	1*	1.0	2*	100	NS	54	SW	.02
152-04	WS		100	6.0	40	80	25	30	12	1*	1.0	2*	40	NS	54	SW	.02
152-05	WS		100	6.0	50	100	25	30	12	1*	1.0	2*	50	NS	54	SW	.02
152-06	WS		100	6.0	60	120	25	30	12	1*	1.0	2*	60	NS	54	SW	.02
152-07	WS		100	6.0	70	140	25	30	12	1*	1.0	2*	70	NS	54	SW	.02
152-08	WS		100	6.0	80	160	25	30	12	1*	1.0	2*	80	NS	54	SW	.02
152-09	WS		100	6.0	90	180	25	30	12	1*	1.0	2*	90	NS	54	SW	.02
152-10	WS		100	6.0	100	200	25	30	12	1*	1.0	2*	100	NS	54	SW	.02
153-04	WS		200	7.5	40	65	15	20	12	1*	1.0	20*	40	NS	59	GP	.018
153-05	WS		200	7.5	50	75	15	20	12	1*	1.0	20*	50	NS	59	GP	.018
153-06	WS		200	7.5	60	85	15	20	12	1*	1.0	2*	60	NS	59	GP	.018
153-07	WS		200	7.5	70	95	15	20	12	1*	1.0	2*	70	NS	59	GP	.018
150-08	WS		200	7.5	80	105	15	20	12	1*	1.0	2*	80	NS	59	GP	.018
153-09	WS		200	7.5	90	115	15	20	12	1*	1.0	2*	90	NS	59	GP	.018
153-10	WS		200	7.5	100	125	15	20	12	1*	1.0	2*	100	NS	59	GP	.018
153-12	WS		200	7.5	120	145	15	20	12	1*	1.0	2*	120	NS	59	GP	.018
153-14	WS		200	7.5	140	165	15	20	12	1*	1.0	2*	140	NS	59	GP	.018
153-16	WS		200	7.5	160	185	15	20	12	1*	1.0	2*	160	NS	59	GP	.018
153-18	WS		200	7.5	180	205	15	20	12	1*	1.0	2*	180	NS	59	GP	.018
153-20	WS		200	7.5	200	225	15	20	12	1*	1.0	2*	200	NS	59	GP	.018
154-04	WS		200	7.5	40	65	15	30	12	1*	1.0	2*	40	NS	59	GP	.018
154-05	WS		200	7.5	50	75	15	30	12	1*	1.0	2*	50	NS	59	GP	.018
154-06	WS		200	7.5	60	85	15	30	12	1*	1.0	2*	60	NS	59	GP	.018
154-07	WS		200	7.5	70	95	15	30	12	1*	1.0	2*	70	NS	59	GP	.018
154-08	WS		200	7.5	80	105	15	30	12	1*	1.0	2*	80	NS	59	GP	.018
154-09	WS		200	7.5	90	115	15	30	12	1*	1.0	2*	90	NS	59	GP	.018
154-10	WS		200	7.5	100	125	15	30	12	1*	1.0	2*	100	NS	59	GP	.018
154-12	WS		200	7.5	120	145	15	30	12	1*	1.0	2*	120	NS	59	GP	.018
154-14	WS		200	7.5	140	165	15	30	12	1*	1.0	2.	140	NS	59	GP	.018
154-16	WS		200	7.5	160	185	15	30	12	1*	1.0	2*	160	NS	59	GP	.018
154-18	WS		200	7.5	180	205	15	30	12	1*	1.0	2*	180	NS	59	GP	.018
154-20	WS		200	7.5	200	225	15	30	12	1*	1.0	2*	200	NS	59	GP	.018
154T1	SF	.08		.006		12	1.0	60	6.0	1.0				PG	2	RF	100

TRANSISTOR obsolete*	MFG	MAXIMUM						GAIN				MAX	@	TYPE	BASE	USE	typ
		P_C (watts)		I_C amps	V_{CE}	V_{CB}	V_{EB}	typ h_{fe}	V_{CE}	I_C ma amp*	freq kc mc*	I_{CBO} μa ma*	V_{CE}				f_t $f_{\alpha b}$*
		T_A	T_C														
155T1	SF	.08		.006		12	1.0	60	6.0	1.0	100*			PG	2	RF	120
156-04	WS		120	8.0	40		10	30	4.0	5*	DC			NS	72	SW	2.0
156-06	WS		120	8.0	60		10	30	4.5	5*	DC			NS	72	SW	2.0
156-08	WS		120	8.0	80		10	30	4.0	5*	DC			NS	72	SW	2.0
156-10	WS		120	8.0	100		10	30	4.0	5*	DC			NS	72	SW	2.0
156T1	SF	.08		.006		12	1.0	30	6.0	1.0				PG	2	RF	120
159T1	SF	.08		.01		14	0.7	30	9.0	2.0	100*			PG	2	RF	240
160T1	SF	.08		.01		14	0.7	3.5	9.0	2.0	100*			PG	2	RF	280
161T1	SF	.08		.01		14	0.7	3.5	9.0	2.0	100*			PG	2	RF	280
162T1	SF	.08		.01		14	1.0	3.8	9.0	2.0	100*			PG	2	RF	300
163-04	WS		200	7.5	40	65	15	14	12	5*	1.0	2*	40	NS	59	GP	.018
163-05	WS		200	7.5	50	75	15	14	12	5*	1.0	2*	50	NS	59	GP	.018
163-06	WS		200	7.5	60	85	15	14	12	5*	1.0	2*	60	NS	59	GP	.018
163-07	WS		200	7.5	90	95	15	14	12	5*	1.0	2*	70	NS	59	GP	.018
163-08	WS		200	7.5	80	105	15	14	12	5*	1.0	2*	80	NS	59	GP	.018
163-09	WS		200	7.5	90	115	15	14	12	5*	1.0	2*	90	NS	59	GP	.018
163-10	WS		200	7.5	100	125	15	14	12	5*	1.0	2*	100	NS	59	GP	.018
163-12	WS		200	7.5	120	145	15	14	12	5*	1.0	2*	120	NS	59	GP	.018
163-14	WS		200	7.5	140	165	15	14	12	5*	1.0	2*	140	NS	59	GP	.018
163-16	WS		200	7.5	160	185	15	14	12	5*	1.0	2*	160	NS	59	GP	.018
163-18	WS		200	7.5	180	205	15	14	12	5*	1.0	2*	180	NS	59	GP	.018
163-20	WS		200	7.5	200	225	15	14	12	5*	1.0	2*	200	NS	59	GP	.018
164-04	WS		200	7.5	40	65	15	16	12	5*	1.0	2*	40	NS	59	GP	.018
164-05	WS		200	7.5	50	75	15	16	12	5*	1.0	2*	50	NS	59	GP	.018
164-06	WS		200	7.5	60	85	15	16	12	5*	1.0	2*	60	NS	59	GP	.018
164-07	WS		200	7.5	70	95	15	16	12	5*	1.0	2*	70	NS	59	GP	.016
164-08	WS		200	7.5	80	105	15	16	12	5*	1.0	2*	80	NS	59	GP	.016
164-09	WS		200	7.5	90	115	15	16	12	5*	1.0	2*	90	NS	59	GP	.016
164-10	WS		200	7.5	100	125	15	16	12	5*	1.0	2*	100	NS	59	GP	.016
164-12	WS		200	7.5	120	145	15	16	12	5*	1.0	2*	120	NS	59	GP	.016
164-14	WS		200	7.5	140	165	15	16	12	5*	1.0	2*	140	NS	59	GP	.016
164-16	WS		200	7.5	160	185	15	16	12	5*	1.0	2*	160	NS	59	GP	.016
164-18	WS		200	7.5	180	205	15	16	12	5*	1.0	2*	180	NS	59	GP	.016
164-20	WS		200	7.5	200	225	15	16	12	5*	1.0	2*	200	NS	59	GP	.016
201A	MO	.15		0.1	6.0	15	2.0	70	5.0	1.5	1.0	10	15	PG	2	RF	
201B	MO	.15		0.1	6.0	15	2.0	70	5.0	1.5	1.0	10	15	PG	2	RF	
201M	MO	.15		0.1	6.0	15	2.0	70	5.0	1.5	1.0	10	15	PG	2	RF	
501T1	SF	.08		.01		20	1.0	3.5	9.0	2.0	100*			PG	2	RF	280
503T1	SF	.08		.01		20	1.0	3.5	9.0	2.0	100*			PG	2	RF	280
504T1	SF	.08		.01		20	1.0	190	9.0	2.0	1.0			PG	2	RF	200
505T1	SF	.08		.01		20	1.0	3.0	9.0	2.0	100*			PG	2	RF	240
157T1	SF	.08		.006		12	1.0	30	6.0	1.0				PG	2	RF	130
508T1	SF	.08		.01		20	1.0	3.0	9.0	2.0	100*			PG	2	RF	240
AD121	SG	.17	0.6	0.3	20	20	10	100	0.5	100	DC	5.0	20	PG	22	GP	1.5
AC127	SG	.135	.28	0.3		32	10					500	32	PG	22	GP	1.5
AC151	SG	0.1		0.2	24	32	10	110	1.0	2.0	1.0	10	10	PG	22	GP	.015
AC152	SG	.135	0.6	0.3	24	32	10	90	0.5	100	DC	6.0	32	PG	22	GP	.015
AC153	SG	.225	0.9	1.0		32	10	90		300	DC	10	10	PG	22	GP	1.5
AC162	SG	0.1		0.2	24	32	10	125	5.0	2.0	1.0	10	10	PG	22	GP	1.3
AC163	SG	0.1		0.2	24	32	10	180	5.0	2.0	1.0	10	10	PG	22	GP	2.3
ACY17	MU	.16		1.0		70		100		300	DC			PG	4	GP	1.1
ACY18	MU	.16		1.0		50		80		300	DC			PG	4	GP	1.1
ACY19	MU	.16		1.0		50		165		300	DC			PG	4	GP	1.8
ACY20	MU	.16		1.0		40		85		50	DC			PG	4	AF	1.1
ACY21	MU	.16		1.0		40		170		50	DC			PG	4	AF	1.6
ACY22	MU	.16		1.0		20		180		300	DC			PG	4	GP	1.1
ACY23	SG	0.1		.05	30	32	16	100	5.0	1.0	1.0	5.0	32	PG	14	GP	1.5
ACY32	SG	0.1		.05	30	32	16	100	5.0	1.0	1.0	5.0	32	PG	14	GP	1.5
ACY33	SG	0.2	0.8	1.0	30	32	10	125		300	DC	50	32	PG	27	GP	1.5
AD130	SG	13	30	3.0	30	32	10	45	1.0	1.0	DC			PG	73	GP	11*
AD131	SG	13	30	3.0	45	64	20	45	1.0	1.0	DC			PG	73	GP	11*
AD132	SG	13	30	3.0	60	80	20	30	1.0	1.0	DC			PG	73	GP	12*
AD133	SG	13	30	15	32	50	10	45	0.5	5*	DC			PG	73	GP	10*
AD136	SG	7.0	9.0	10	22	40	10	45	0.5	5*	DC			PG	27	GP	8.0*
AD140	MU		35	3.0	30	55		65	1.0	1*	DC	100	0.5	PG	72	GP	
2-AD140	MU		35	3.0	30	55		65	1.0	1*	DC	100	0.5	PG	72	GP	
AD148	SG	6.5	11	1.5		32	10	60	1.0	1.0	DC			PG	73	GP	.45
AD149	SG	9.0	30	3.0	30		10	60	1.0	1.0	DC			PG	73	SW	450
AD150	SG	9.0	30	3.0	30	32	10	60	1.0	1.0	DC			PG	73	SW	450
ADY26	MU		100	30	60	80		40		15*	DC	200	2.0	PG	43	GP	0.1
ADY27	SG	9.0	30	3.0	30	32	10	60	1.0	1*	DC			PG	73	SW	450
ADZ11	MU		45	20	40	50		25		1*	DC	8*	50	PG	43	AF	.08
ADZ12	MU		45	20	60	80		25		1*	DC	8*	80	PG	43	GP	0.1
AF106	SG	.05		.01	18	25	0.3	50	12	1.0	DC	0.5	12	PG	7	SW	220
AF109	SG	.033		.012	18	25	0.3	20	12	2.0	DC	0.5	12	PG	7	SW	200

TRANSISTOR obsolete*	MFG	MAXIMUM P_C (watts) T_A	MAXIMUM P_C (watts) T_C	MAXIMUM I_C amps	MAXIMUM V_{CE}	MAXIMUM V_{CB}	MAXIMUM V_{EB}	GAIN typ h_{fe}	GAIN V_{CE}	GAIN I_C ma amp*	GAIN freq kc mc*	MAX I_{CBO} μa ma*	@ V_{CE}	TYPE	BASE	USE	typ f_t $f_{\alpha b}$*
AF114	SG	.05		.01		20	1.0	140	6.0	1.0	DC	1.2	6.0	PG	37	RF	75
AF114	MU	.08		.01		20		150	6.0	1.0	1.0	8.0	6.0	PG	37	RF	75
AF115	MU	.08		.01		20		150	6.0	1.0	1.0	8.0	6.0	PG	37	RF	75
AF115	SG	.05		.01		20	1.0	140	6.0	1.0	DC	1.2	6.0	PG	37	RF	75
AF116	MU	.08		.01		20		150	6.0	1.0	1.0	8.0	6.0	PG	37	RF	75
AF116	SG	.05		.01		20	1.0	140	6.0	1.0	DC	1.2	6.0	PG	37	RF	75
AF117	MU	.08		.01		20		150	6.0	1.0	1.0	8.0	6.0	PG	37	RF	75
AF117	SG	.05		.01		20	1.0	140	6.0	1.0	DC	1.2	6.0	PG	37	RF	75
AF118	SG	.12		.03		70	0.5	180	2.0	10	DC	1.3	6.0	PG	37	RF	175
AF121	SG	0.1		.01		25		75	10	40	DC	1.2	10	PG	37	SW	270
AF124	MU	.06		.01		20		150	6.0	1.0	1.0	8.0	6.0	PG	8	RF	75
AF124	SG	.06		.01		20	1.0	140	6.0	1.0	DC	1.2	6.0	PG	8	RF	75
AF125	MU	.06		.01		20		150	6.0	1.0	1.0	8.0	6.0	PG	8	RF	75
AF125	SG	.06		.01		20	1.0	140	6.0	1.0	DC	1.2	6.0	PG	8	RF	75
AF126	MU	.06		.01		20		150	6.0	1.0	1.0	8.0	6.0	PG	8	RF	75
AF126	SG	.06		.01		20	1.0	140	6.0	1.0	DC	1.2	6.0	PG	8	RF	75
AF127	MU	.06		.01		20		150	6.0	1.0	1.0	8.0	6.0	PG	8	RF	75
AF127	SG	.06		.01		20	1.0	140	6.0	1.0	DC	1.2	6.0	PG	8	RF	75
AF139	SG	.035		.007	15	20	0.3	50	12	1.5	DC	1.0	20	PG	7	SW	480
AFY10	SG		0.6	.07	15	30	1.0					2.0	15	PG	27	SW	300
AFY11	SG		0.6	.07	15	30	1.0					2.0	15	PG	27	SW	300
AFY12	SG	.045		.01	18	25	0.5	50	12	1.0	DC	100	25	PG	7	SW	230
AFY16	SG	.035		.007	15	20	0.3	50	12	1.5	DC	0.6	20	PG	7	SW	480
AFY18	SG	.18	.45	0.1	15	30	1.0	90	10	10	1.0	1.0	15	PG	27	SW	500
AFZ11	MU	.085		.01		20		70	6.0	1.0	1.0	50	20	PG	8	RF	140
AFZ12	MU	.083		.01	10	15		180	6.0	1.0	1.0	6.0	6.0	PG	8	RF	
AFZ23	MU		4.5	0.1			2.0					8.0	6.0	PG	37	RF	
AMF101	AF		85	4.0		30	0.5	35	15	1*	DC	100	15	NS	77	GP	1.0
AMF102	AF		85	4.0		60	0.5	35	15	1*	DC	100	15	NS	77	GP	1.0
AMF103	AF		85	4.0		100	0.5	35	15	1*	DC	100	15	NS	77	GP	1.0
AMF104	AF		75	4.0		30	0.5	35	15	1*	DC	100	15	NS	72	GP	1.0
AMF105	AF		75	4.0		60	0.5	35	15	1*	DC	100	15	NS	72	GP	1.0
AMF106	AF		75	4.0		100	0.5	35	15	1*	DC	100	15	NS	72	GP	1.0
AMF107	AF		85	4.0		30	0.5	40	15	1*	DC	100	15	NS	59	GP	1.0
AMF108	AF		85	4.0		60	0.5	40	15	1*	DC	100	15	NS	59	GP	1.0
AMF109	AF		85	4.0		100	0.5	40	15	1*	DC	100	15	NS	59	GP	1.0
AMF110	AF		85	4.0		60	0.5	40	15	1*	DC	100	15	NS	59	GP	
AMF111	AF		85	7.5		60	0.5	40	15	2*	DC	100	15	NS	59	GP	
AMF112	AF		85	7.5		60	0.5	35	12	2*	DC	100	15	NS	77	GP	
AMF113	AF		85	7.5		60	0.5	35	15	2*	DC	100	15	NS	77	GP	
AMF114	AF		85	7.5		60	0.5	40	15	2*	DC	100	15	NS	59	GP	
AMF115	AF		75	7.5		60	0.5	35	15	2*	DC	100	15	NS	72	GP	
AMF116	AF		75	7.5		60	0.5	35	12	2*	DC	100	15	NS	72	GP	
AR-1	PH	5.0			32			30						P		GP	
AR-2	PH	.25		.25	20			50						P		AF	
AR-5	PH	7.0		2.0	40									P		GP	
AR-6	PH	10		2.0	40									P		GP	
AR-7	PH	10		2.0	50									P		GP	
AR-8	PH	12		4.0	50									P		GP	
AR-8A	PH	12		4.0	50									P		GP	
AR-9	PH	10		3.5	50									P		GP	
AR-10	PH	10		3.5	50									P		GP	
AR-11	PH	10		3.5	50									P		GP	
AR-12	PH	10		3.5	25			150						P		GP	
AR-13	PH	10		3.5	25									P		GP	
AR-101	PH	.15		.15	35									P		AF	
AR-102	PH	.15		.15	35									P		AF	
ASY26	MU	.125		0.2	25	30						3.0	5.0	PG	4	SW	4.0
ASY27	MU	.125		0.2	20	25						3.0	5.0	PG	4	SW	6.0
ASY28	MU	.125		0.2	25	30						3.0	5.0	NG	4	SW	4.0
ASY29	MU	.125		0.2	20	25						3.0	5.0	NG	4	SW	6.0
ASY48	SG	0.2	0.8	0.3	45	64	16	50	0.5	100	DC	6.0	64	PG	14	GP	1.2
ASY67	MU	0.1		.05	50	50		90	2.5	10	DC	10	6.0	PG	8	SW	150
ASY70	SG	0.2	0.8	0.3	30	32	16	80	0.5	100	DC	5.0	32	PG	14	GP	1.5
ASZ20	MU	0.6		.025		40								PG	37	SW	40
ASZ21	AP	.275		.03	15	20		110	1.0	30	DC			PG	2	RF	500
ASZ21	MU	0.1		.05	15	20		75	1.0	30	DC	7.0	6.0	PG	7	SW	450
ASZ30	MU	.05		0.1										PG	37	SP	
AUY10	MU		4.5	0.7	55	70						2*	60	PG	72	SW	120
AUY18	SG	6.5	9.0	8.0	35	64	20	40	.65	8*	DC			PG	27	GP	
AUY19	SG	13	30	3.0	45	64	20	33	0.6	1*	DC			PG	73	GP	
AUY20	SG	13	30	3.0	60	80	20	26	0.6	1*	DC			PG	73	GP	
AUY21	SG	13	30	10	32	65	20	45	0.5	5*	DC			PG	73	GP	.01*
AUY22	SG	13	30	8.0	45	80	20	22	0.5	5*	DC			PG	73	GP	.01*
B1215	BN		40	5.0	36			80	5.0	4*	DC	2*	36	PG	72	GP	

TRANSISTOR obsolete*	MFG	MAXIMUM						GAIN				MAX	@	TYPE	BASE	USE	typ
		P_C (watts)		I_C	V_{CE}	V_{CB}	V_{EB}	typ h_{fe}	V_{CE}	I_C	freq	I_{CBO}	V_{CE}				f_t
		T_A	T_C	amps						ma amp*	kc mc*	μa ma*					$f_{\alpha b}$*
BCY10	AP	.312		0.4	32			40		10		.02	6.0	PS	34	GP	1.0
BCY11	AP	.312		0.4	60			40		10		.02	6.0	PS	34	GP	1.0
BCY12	AP	.312		0.4	32			40		10		.02	6.0	PS	34	GP	1.5
BCY30	MU	0.1		0.1		64		25		1.0				PS	2	GP	.25
BCY31	MU	0.1		0.1		64		42		1.0				PS	2	GP	.25
BCY32	MU	0.1		0.1		64		57		1.0				PS	2	GP	0.4
BCY33	MU	0.1		0.1		32		25		1.0				PS	2	GP	0.4
BCY34	MU	0.1		0.1		32		42		1.0				PS	2	GP	0.6
BCY38	MU	.12		0.5		32		20		150	DC			PS	4	GP	.45
BCY39	MU	.12		0.5		64		30		150	DC			PS	4	GP	.45
BCY40	MU	.12		0.5		32		75		150	DC			PS	4	GP	.85
BCZ11	AP	.25		.05	25	25	20	35	6.0	1.0	1.0	0.1	10	PS	34	GP	2.0
BCZ11	MU	.25		0.1	15	25		35	6.0	1.0	1.0	0.1	6.0	PS	32	GP	1.5
BCZ12	AP	.25		.035	60			15		1.0		.001	10	PS	34	GP	1.0
BDY10	MU		130	4.0	50	50		30		2*	DC	100	20	NS	72	GP	1.0
BDY11	MU		130	4.0	100	100		30		2*	DC	25	20	NS	72	GP	1.0
BFY10	MU	.15		.05		45		37		50	DC	2.0	20	NS	2	RF	100
BFY11	MU	.15		.05		45		83		125	DC	2.0	20	NS	2	RF	100
BFY12	SG	0.6	2.6	0.5	40	40	5.0	36	5.0	50	DC	1.0	30	NS	2	SW	250
BFY13	SG	0.6	2.6	0.3	80	80	5.0	36	5.0	50	DC	1.0	60	NS	2	SW	250
BFY14	SG	0.6	2.6	.15	100	100	5.0	20	5.0	50	DC	1.0	70	NS	2	SW	250
BFY22	BR	.03		.005	5.0	5.0	3.0	80	0.5	2.0	1.0	.015	2.0	NS		GP	4.0
BFY23	BR	.03		.005	5.0	5.0	3.0	140	0.5	2.0	1.0	.015	2.0	NS		GP	4.0
BFY24	BR	.03		.005	5.0	5.0	3.0	130	0.5	2.0	1.0	.015	2.0	NS		GP	4.0
BFY29	BR	.03		.005	30	45	5.0	80	0.5	2.0	1.0	.015	30	NS		GP	4.0
BFY30	BR	.03		.005	30	45	5.0	140	0.5	2.0	1.0	.015	30	NS		GP	4.0
BFY33	SG	0.6	2.6	0.5	25	50	7.0	20	10	500	DC	0.8	40	NS	2	RF	80
BFY34	SG	0.6	2.6	0.5		75	7.0	20	10	500	DC	0.8	60	NS	2	RF	80
BSY10	MU	.15		.05		60		63		80	DC	2.0	20	NS	2	RF	100
BSY11	MU	.15		.05		45		93		125	DC	2.0	20	NS	2	RF	100
BSY18	SG	.245	.875	0.2	15	15	5.0	40	1.0	150	DC	.005	15	NS	2	SW	400
BSY34	SG	0.6	2.6	0.6	40	50	5.0	10	1.2	500	DC			NS	2	SW	400
BSY51	BR	0.8	3.0		25	60	5.0	75	10	150	DC	100	30	NS	2	RF	250
BSY52	BR	0.8	3.0		25	60	5.0	185	10	150	DC	100	30	NS	2	RF	250
BSY53	BR	0.8	3.0		30	75	7.0	75	10	150	DC	.01	60	NS	2	RF	275
BSY54	BR	0.8	3.0		30	75	7.0	185	10	150	DC	.01	60	NS	2	RF	275
BSY55	BR	0.8	3.0		80	120	7.0	75	10	150	DC	.01	60	NS	2	RF	275
BSY56	BR	0.8	3.0		80	120	7.0	185	10	150	DC	.01	60	NS	2	RF	275
BSY58	SG	0.6	2.6	0.6	30	40	5.0	10	1.2	500	DC			NS	2	SW	400
BSY62	SG	.245	.875	0.2	15	15	5.0	40	1.0	150	DC			NS	2	SW	400
BSY63	SG	.245	.875	0.2	15	15	5.0	40	1.0	150	DC			NS	2	SW	400
BUY12	SG		50	10	80	210	5.0	16	1.8	8.0	DC	200	150	NS	73	GP	11
BUY13	SG		50	8.0	70	120	5.0	20	1.0	150	DC	200	80	NS	73	GP	11
C101	CY	0.4		0.1		20	30					0.1	20	PS	2	GP	0.4
C102	CY	0.4		0.1		15	30					0.1	15	PS	2	GP	0.8
C103	CY	0.4		0.1		10	30					0.1	10	PS	2	GP	1.2
C106	CY	0.4		0.1	10	30	30	50	6.0	1.0	1.0	0.1	30	PS	2	SW	1.2
C118	CY	0.4		0.1	6.0	12	6.0	17	6.0	1.0	DC	1.0	6.0	PS	2	GP	1.0
C119	CY	0.4		0.1	6.0	12	6.0	30	6.0	1.0	DC	1.0	6.0	PS	2	GP	1.0
C201	CY	0.4		0.1		40	40	10			DC	0.1	40	PS	2	GP	0.4
C202	CY	0.4		0.1		12	25	20			DC	.01	12	PS	2	GP	0.8
C301	CY	0.4		0.1		70	70	6.0			DC	0.1	70	PS	2	GP	0.4
C302	CY	0.4		0.1		8.0	12	16			DC	.005	8.0	PS	2	GP	0.8
C401	CY	0.4		0.1		40	40	4.0			DC	0.1	40	PS	4	GP	
C402	CY	0.4		0.1		10	15	20			DC	.003	10	PS	2	GP	0.8
CA2D2	MH		10	3.5		20	12	50	2.0	2*	DC	4*	20	PG	51	GP	0.4
CB1F4	MH		10	3.5	30	40	12	50	2.0	2*	DC	2*	40	PG	51	GP	0.4
CDT1310	CV		45	5.0		40	30	20	2.0	2*		2*	20	PG	72	GP	
CDT1311	CV		45	5.0		60	30	20	2.0	2*		2*	30	PG	72	GP	
CDT1312	CV		45	5.0		80	30	20	2.0	2*		2*	40	PG	72	GP	
CDT1313	CV		45	5.0		100	30	20	2.0	2*		2*	50	PG	72	GP	
CDT1319	CV		45	5.0		40	30	20	2.0	2*		2*	20	PG	72	GP	
CDT1320	CV		45	5.0		60	30	20	2.0	2*		2*	30	PG	72	GP	
CDT1321	CV		45	5.0		80	30	20	2.0	2*		2*	40	PG	72	GP	
CDT1322	CV		45	5.0		100	30	20	2.0	2*		2*	50	PG	72	GP	
CK13	RA	.15		0.2	18			25				2.0	12	PG	23	GP	
CK14	RA	.15		0.2	15			60				2.0	12	PG	23	GP	
CK16	RA	.15		0.2	12			80				2.0	12	PG	23	GP	
CK17	RA	.15		0.2	10			140				2.0	12	PG	23	GP	
CK22	RA			0.1	20	35	12					5.0	20	PG	12	GP	
CK25	RA	.15		0.1	20			30				6.0	20	PG	23	GP	
CK25	RA	.15		0.4	18			40				2.0	1.5	PG	23	GP	
CK27	RA	.15		0.4	15			55				2.0	1.5	PG	23	GP	
CK28	RA	.15		0.4	12			80				2.0	1.5	PG	23	GP	
CK64	RA			0.1	29	45	12	22	6.0	1.0	1.0	5.0	20	PG	12	GP	

TRANSISTOR obsolete*	MFG	MAXIMUM						GAIN				MAX	@	TYPE	BASE	USE	typ
		P_C (watts)		I_C amps	V_{CE}	V_{CB}	V_{EB}	typ h_{fe}	V_{CE}	I_C ma amp*	freq kc mc*	I_{CBO} μa ma*	V_{CE}				f_t, f_{ab}*
		T_A	T_C														
CK65	RA			0.1	24	45	12	45	6.0	1.0	1.0	5.0	20	PG	12	GP	
CK66	RA			0.1	20	35	12	90	6.0	1.0	1.0	5.0	20	PG	12	GP	
CK67	RA			0.1	15	35	12	180	6.0	1.0	1.0	5.0	20	PG	12	GP	
CK256	RA		20	3.0	15	30	30					1*	30	PG	12	GP	
CK258	RA		20	3.0	30	60	60					1*	60	PG	12	GP	
CK311	RA		20	3.0	60	60	30					1*	60	PG	12	GP	
CK312	RA		20	3.0	60	60	30					1*	60	PG	12	GP	
CK313	RA		20	3.0	60	60	30					1*	60	PG	12	GP	
CK314	RA		20	3.0	60	60	30					1*	60	PG	12	GP	
CK315	RA		20	3.0	60	60	30					1*	60	PG	12	GP	
CK721	RA	.18		.01	15			22				6.0	20	PG	76	GP	
CK722	RA	.18		.01	22			45				6.0	20	PG	76	GP	
CK725	RA			.001	6.0			90				6.0		PG	76		
CK727	RA			0.5	2.5			25				6.0		PG	76		
CK751	RA			.001	6.0							1.0		PG		AF	
CK754	RA	0.1		0.1	10			300				5.0	20	PG	76	GP	
CK760	RA			.001	6.0			40				1.0		PG	67		
CK761	RA			.001	6.0			45				1.0		PG	67		
CK762	RA			.001	6.0			65				1.0		PG	67		
CK766	RA			.001	6.0							1.0		PG	67	RF	
CK766A	RA			.001	6.0							1.0		PG	67	AF	
CK768	RA	.15		0.1	15			20				1.0	12	PG	67	GP	
CK790	RA	0.2		.05	45		22					0.2	20	PG	67	AF	
CK791	RA	0.2		.05	30		22					0.2	20	PG	67	AF	
CK793	RA	0.2		.05	30		22					0.2	20	PG	67	AF	
CK794	RA	0.2		.05	10			300				6.0		PG		AF	
CK870	RA	.13		.15	20			12				6.0	20	PG	68	GP	
CK871	RA	.13		.15	15			20				6.0	20	PG	68	GP	
CK882	RA	.15		0.1	24			90				6.0	20	PG	67	GP	
CK888	RA	.15		0.1	12			140				6.0	20	PG	67	GP	
CST1739	CY		30	3.0	15	15	35					20	2.0	PG	69	GP	
CST1740	CY		30	3.0	15	15	35					20	2.0	PG	69	GP	
CST1741	CV		30	3.0	15	15	35					20	2.0	PG	69	SW	
CST1742	CV		30	3.0	15	15	35					20	2.0	PG	69	SW	
CST1743	CV		30	3.0	15	15	35					20	2.0	PG	69	SW	
CST1744	CV		30	3.0	30	30	45					30	2.0	PG	69	GP	
CST1745	CV		30	3.0	30	30	45					30	2.0	PG	69	GP	
CST1746	CV		30	3.0	30	30	45					30	2.0	PG	69	GP	
CTP1104	CV	2.0	15			40						2*	40	PG	72	GP	
CTP1108	CV	2.0	15			20						2*	20	PG	72	GP	
CTP1109	CV	2.0	15			20						2*	20	PG	72	GP	
CTP1111	CV	2.0	15			80						2*	40	PG	72	GP	
CTP1117	CV		40		30	40	10	65	2.0	2*		2*	40	PG	72	GP	
CTP1133	CV		40		30	40	6.0	65						PG	72	GP	
CTP1135	CV		40		30	40	20	40	2.0	500				PG	72	GP	
CTP1136	CV		40		45	60	20	40	2.0	500				PG	72	GP	
CTP1500	CV		75	15	60	100	30	50	2.0	5*	DC	30*	100	PG	72	GP	
CTP1503	CV		75	15	50	80	30	50	2.0	5*	DC	30*	80	PG	72	GP	
CTP1504	CV		75	15	35	60	30	50	2.0	5*	DC	30*	60	PG	72	GP	
CTP1508	CV		75	15	20	40	30	50	2.0	5*	DC	30*	40	PG	72	GP	
CTP1544	CV		75	25	30	60	30	75	2.0	5*	DC	4*	30	PG	72	GP	
CTP1545	CV		75	25	40	80	30	75	2.0	25*	DC	4*	40	PG	72	GP	
CTP1552	CV		75	25	20	40	30	75	2.0	25*	DC	4*	20	PG	72	GP	
CTP1553	CV		75	25	50	100	30	75	2.0	25*	DC	4*	50	PG	72	GP	
CTP1728	CV		30	5.0	15	40	35	50	2.0	500	DC	20	20	PG	69	SW	
CTP1729	CV		30	5.0	37	80	35	50	2.0	500	DC	30	20	PG	69	SW	
CTP1730	CV		30	5.0	45	100	35	50	2.0	500	DC	30	20	PG	69	SW	
CTP1731	CV		30	5.0	15	40	35	100	2.0	500	DC	20	20	PG	69	SW	
CTP1732	CV		30	5.0	37	80	35	100	2.0	500	DC	30	20	PG	69	SW	
CTP1733	CV		30	5.0	45	100	35	100	2.0	500	DC	30	20	PG	69	SW	
CTP1735	CV		30	5.0	25	60	35	50	2.0	500	DC	20	20	PG	69	SW	
CTP1736	CV		30	5.0	25	60	35	100	2.0	500	DC	20	20	PG	69	SW	
CTP3500	CV		75	15	60	100	30	50	2.0	5*	DC	30*	100	PG	72	GP	
CTP3503	CV		75	15	50	80	30	50	2.0	5*	DC	30*	80	PG	72	GP	
CTP3504	CV		75	15	35	60	30	50	2.0	5*	DC	30*	60	PG	72	GP	
CTP3508	CV		75	15	20	40	30	50	2.0	5*	DC	30*	40	PG	72	GP	
CTP3544	DV		75	25	30	60	30	75	2.0	25*	DC	4*	30	PG	72	GP	
CTP3545	CV		75	25	40	80	30	75	2.0	25*	DC	4*	40	PG	72	GP	
CTP3552	CV		75	25	20	40	30	75	2.0	25*	DC	4*	20	PG	72	GP	
CTP3553	CV		75	25	50	100	30	75	2.0	25*	DC	4*	50	PG	72	GP	
DA3F3	MH		187	30	35	60		50	2.0	10*	DC	20*	60	PG	49	GP	
DPT657	PS		25	1.2	80	100	4.0	2.0	28	350	70*			N		RF	210
DS-1	DR	.05				16								N	67	RF	
DS-2	DR	.15				32								N	67	RF	
DS-3	DR	.05				20								N	32	GP	

TRANSISTOR obsolete*	MFG	MAXIMUM P_C (watts) T_A	MAXIMUM P_C (watts) T_C	MAXIMUM I_C amps	MAXIMUM V_{CE}	MAXIMUM V_{CB}	MAXIMUM V_{EB}	GAIN typ h_{fe}	GAIN V_{CE}	GAIN I_C ma amp*	GAIN freq kc mc*	MAX I_{CBO} μa ma*	@ V_{CE}	TYPE	BASE	USE	typ f_t $f_{\alpha b}$*
DS-4	DR	.05				16								N	67	RF	
DS-5	DR	.05				16								N	67	RF	
DS-6	DR	.15				16								N	67	RF	
DS-7	DR	.15				16								N	67	RF	
DS-9	DR	.05				16								N	67	RF	
DS-11	DR	.065				16								N	67	RF	
DS-12	DR	.065				16								N	67	RF	
DS-14	DR	.15				20								P	14	AF	
DS-16	DR	.15				20								P	14	AF	
DS-19	DR	.08				16								P	32	RF	
DS-21	DR	.08				16								P	32	RF	
DS-22	DR	.08				32								P	14	RF	
DS-25	DR	.08		.005		32								P	14	RF	
DS-26	DR	.25		.02	15	32								P	14	AF	
DS-29	DR	.25				32								P	14	AF	
DS-34	DR	.08		.005		32								P	14	RF	
DS-41	DR	.08		.01		20								P	32	RF	
DS-44	DR	0.2		.01		32	32							N			
DS-46	DR	0.2		0.1	16	16	1.0							N			
DS-501	DR		60	15	30	50	30							P	43	AF	
DS-502	DR		75	15	55	80	60							P	43	GP	
DS-503	DR		60	5.0	30	60	20							P	72	AF	
DS-504	DR		60	15	25	40	20							P	43	GP	
DS-505	DR		60	15	30	50	30							P	43		
DS-506	DR		60	15	30	50	30							P	43		
DS-520	DR		60	5.0		40	20							P	72		
DS-525	DR		60	15		40	20							P	43		
DS-3018	DR																
DS-4004	DR																
DS-4005	DR																
DS-5018	DR																
DS-5019	DR																
DT100	DR			15			80					200	2.0	P	43	GP	
DT161	LU	0.6	2.0	.25	15	25	4.0	30	10	40	1.0	8.0	25	NS	2	GP	0.5
DT1110	LU	1.0	5.0	0.5	30	30	10	45	15	50	1.0	2.0	30	NS	2	GP	1.5
DT1111	LU	1.0	5.0	0.5	60	60	10	45	15	50	1.0	2.0	60	NS	2	GP	1.5
DT1112	LU	1.0	5.0	0.5	100	100	10	45	15	50	1.0	2.0	100	NS	2	GP	1.5
DT1120	LU	1.0	5.0	0.5	30	30	10	90	15	50	1.0	2.0	30	NS	2	GP	2.5
DT1121	LU	1.0	5.0	0.5	60	60	10	90	15	50	1.0	2.0	60	NS	2	GP	2.5
DT1122	LU	1.0	5.0	0.5	100	100	10	90	15	50	1.0	2.0	100	NS	2	GP	2.5
DT1510	LU	0.8	4.0	0.3	20	30	8.0	25	15	50	1.0	4.0	30	NS	2	GP	1.0
DT1511	LU	0.8	4.0	0.3	40	60	8.0	25	15	50	1.0	4.0	60	NS	2	GP	1.0
DT1512	LU	0.8	4.0	0.3	70	100	8.0	25	15	50	1.0	4.0	100	NS	2	GP	1.0
DT1520	LU	0.8	4.0	0.3	20	30	10	180	15	50	1.0	4.0	30	NS	2	GP	2.0
DT1521	LU	0.8	4.0	0.3	40	60	10	180	15	50	1.0	4.0	60	NS	2	GP	2.0
DT1522	LU	0.8	4.0	0.3	70	100	10	180	15	50	1.0	4.0	100	NS	2	GP	2.0
DT4110	LU		30	1.5	30	45	8.0	32	6.0	1.5*	DC	25	30	NS	72	GP	0.8
DT4111	LU		30	1.5	60	80	8.0	32	6.0	1.5*	DC	25	60	NS	72	GP	0.8
DT4112	LU		30	1.5	100	120	8.0	32	6.0	1.5*	DC	25	100	NS	72	GP	0.8
DT4120	LU		30	1.5	30	45	8.0	60	6.0	1.5*	DC	25	30	NS	72	GP	0.8
DT4121	LU		30	1.5	60	80	8.0	60	6.0	1.5*	DC	25	60	NS	72	GP	0.8
DTS-400	DR			10	400	400	5.0	25		5*	DC	10*	400	N	43	GP	
ED-322	SR	SAME AS 2N2795															
ES3110	EB	.054		.01	15	30	20	12	5.0	1.0	1.0	6.0	10	PG	20	GP	0.3
ES3111	EB	.054		.01	15	30	20	18	5.0	1.0	1.0	6.0	10	PG	20	GP	0.4
ES3112	EB	.054		.01	15	30	20	27	5.0	1.0	1.0	6.0	10	PG	20	GP	0.6
ES3113	EB	.054		.01	15	30	20	39	5.0	1.0	1.0	6.0	10	PG	20	GP	0.8
ES3114	EB	.054		.01	15	30	20	56	5.0	1.0	1.0	6.0	10	PG	20	GP	1.0
ES3115	EB	.054		.01	15	30	20	82	5.0	1.0	1.0	6.0	10	PG	20	GP	1.5
ES3116	EB	.054		.01	15	30	20	120	5.0	1.0	1.0	6.0	10	PG	20	GP	2.0
ES3120	EB	.072		.01	15	30	20	12	5.0	1.0	1.0	6.0	10	PG	2	GP	0.3
ES3121	EB	.072		.01	15	30	20	18	5.0	1.0	1.0	6.0	10	PG	2	GP	0.4
ES3122	EB	.072		.01	15	30	20	27	5.0	1.0	1.0	6.0	10	PG	2	GP	0.6
ES3123	EB	.072		.01	15	30	20	39	5.0	1.0	1.0	6.0	10	PG	2	GP	0.8
ES3124	EB	.072		.01	15	30	20	56	5.0	1.0	1.0	6.0	10	PG	2	GP	1.0
ES3125	EB	.072		.01	15	30	20	82	5.0	1.0	1.0	6.0	10	PG	2	GP	1.5
ES3126	EB	.072		.01	15	30	20	120	5.0	1.0	1.0	6.0	10	PG	2	GP	2.0
FM870	FS	.375	4.0		60	100	7.0	4.0	10	50	20*	.01	75	NS	5	RF	90
FM871	FS	.375	4.0		60	100	7.0	5.0	10	50	20*	.01	75	NS	5	RF	90
FSP-42	FS	0.2			30	75	7.0	70	1.0	10	DC	.025	60	NS	84	SW	
FSP-42-1	FS	0.2			30	75	7.0	120	1.0	10	DC	.025	60	NS	84	SW	
FSP-164	FS	0.1			5.0	12	3.0	60	1.0	10	DC	0.1	5.0	NS	84	RF	
FSP-165	FS	.125			15	40	5.0	3.7	10	20	100*	0.1	20	NS	84	SW	400
FSP-166	FS	0.2			60	100	7.0	70	1.0	10	DC	.025	75	NS	84	RF	
FSP-166-1	FS	0.2			60	100	7.0	120	1.0	10	DC	.025	75	NS	84	RF	

FSP-215 GT-167

TRANSISTOR obsolete*	MFG	MAXIMUM P_C (watts) T_A	MAXIMUM P_C (watts) T_C	MAXIMUM I_C amps	MAXIMUM V_{CE}	MAXIMUM V_{CB}	MAXIMUM V_{EB}	GAIN typ h_{fe}	GAIN V_{CE}	GAIN I_C ma amp*	GAIN freq kc mc*	MAX I_{CBO} μa ma*	@ V_{CE}	TYPE	BASE	USE	typ f_t $f_{\alpha b}$*
FSP-215	FS	0.1			15	30	3.0	8.0	10	4.0	100*	.025	15	NS	84	SW	800
FSP-242-1	FS	.125			25	45	5.0	4.0	15	10	100*	.025	30	NS	84	SW	400
FSP-270-1	FS	.125			15	20	4.0	75	1.0	10	DC	.025	15	PS	84	SW	150
FSP-289-1	FS	.125			50	70	5.0	3.5	15	10	100*	.025	60	NS	84	SW	350
FT709	FS	SAME AS 2N709 BY FS.															
FT1746	FS	.36	1.2		30	35	4.0	40	5.0	10	DC	.05	15	PS	5	SW	200
GA-52829	WE			.05	30	30	20					1.8	10	PG	70	GP	
GA-52830	WE			0.5	40	40	40	215	4.5	20	1.0	100	40	PG	53	SW	
GA-53149	WE			.05	20	35	35					1.8	10	PG	70	GP	
GA-53242	WE	2.5		.05	40	40	40	40	1.0	400	DC	100	40	PG	53	SW	4.0
GET7	GC			8.0	16	16		15	1.5	8*	DC			PG		GP	
GET8	GC			8.0	32	32		15	1.5	8*	DC			PG		GP	
GET9	GC			8.0	40	64		15	1.5	8*	DC			PG		GP	
GET102	GC	0.2		1.0				100						PG		GP	
GET103	GC	0.2		1.0				55						PG		GP	
GET104	GC	0.2		1.0	30			55						PG		GP	
GET105	GC	.44	0.8	1.0				30	5.0	50	DC			PG		GP	0.9*
GET106	GC	0.2		1.0	15			55						PG		GP	1.0*
GET110	GC	.44	0.8	1.0				20	5.0	50	DC			PG		GP	1.0*
GET111	GC	0.2		1.0				55						PG		GP	1.0*
GET113	GC	0.2		1.0	15			100						PG		GP	1.5*
GET114	GC,GL	0.2		1.0	15	15		55	2.0	1.0	1.0	10	6.0	PG	11	GP	1.0*
GET115	GC	.44	0.8	1.0	15			30	5.0	50	DC			PG		GP	1.0*
GET116	GC	.44	0.8	1.0				30	5.0	50	DC			PG		GP	1.0*
GET120	GC	.44	0.8	1.0				20	5.0	50	DC			PG		GP	1.4*
GET571	GC			12	16	16		15	1.5	12*	DC			PG		GP	
GET572	GC			12	32	32		15	1.5	12*	DC			PG		GP	
GET573	GC			12	40	64		15	1.5	12*	DC			PG		GP	
GET871	GC	.075		.15		15		45	1.0	25	DC			PG		SW	6.0*
GET872	GC	.075		.15		15		65	1.0	25	DC			PG		SW	15*
GET873	GC,GL	.075		.01	10	15		50	6.0	1.0	1.0	5.0	15	PG	11	RF	6.0*
GET874	GC,GL	.075		.01	10	15		70	6.0	1.0	1.0	5.0	15	PG	11	RF	
GET875	GC	.075		.15		15		90	1.0	25	DC			PG		SW	20*
GET880	MU	.08		0.1				75		1.0	1.0			PG	32	AF	
GET881	MU	.08		0.2		15								PG	43	SW	6.5
GET882	MU	.08		0.2		15								PG	43	SW	12.3
GET885	MU	.08		0.2		15								PG	43	SW	20
GET887	MU	.08		0.1		15								PG	2	RF	6.5
GET888	MU	.08		0.1		15		90						PG	2	RF	10
GET889	MU	.08		0.1		15		45						PG	2	RF	7.5
GET890	MU	.08		0.1		15		90						PG	2	RF	12
GF-40022	WE	1.0		0.3	20	35	1.0	8.0	10	50	100*	15	20	P	5	RF	
GT-14	GT	.125		0.1		25		28	5.0	1.0	1.0	6.0	10	PG		GP	
GT-14H	GT	.09		.05		12		28	5.0	1.0	1.0	6.0	10	PG		AF	
GT-81	GT	.15				25	10	75	5.0	1.0	1.0	10	10	PG	17	AF	
GT-20	GT	.125		0.1		25		42	5.0	1.0	1.0	10	10	PG		GP	
GT-20H	GT	.09		.05		12		42	5.0	1.0	1.0	6.0	10	PG		AF	
GT-34	GT	.125		0.1		25		15	5.0	1.0	1.0	6.0	10	PG		GP	
GT-34HV	GT	.15				50		10	5.0	1.0	1.0	7.0	5.0	PG		GP	
GT-34N	GT	.125		0.2		100		18	5.0	1.0	1.0			PG		GP	
GT-34S	GT	.125		0.2		40		15	5.0	1.0	1.0			PG		GP	
GT-35	GT	0.1		0.1		25		40	5.0	1.0	1.0			NG		GP	
GT40	AI	0.1				9.0		30						PG	32	RF	
GT41	AI	0.1				9.0		30						PG	32	RF	
GT42	AI	0.1				9.0		60						PG	32	RF	
GT43	AI	0.1				9.0		100						PG	32	RF	
GT44	AI	0.1				25		30						PG	32	RF	
GT45	AI	0.1				25		30						PG	32	RF	
GT46	AI	0.1				25		60						PG	32	RF	
GT47	AI	0.1				25		100						PG	32	RF	
GT-66	GT	.05		.02		12		100	5.0	1.0	1.0			PG		GP	
GT-74	GT	.125		0.1		25	10	75	5.0	1.0	1.0	6.0	10	PG	14	GP	
GT-75	GT	.125		0.1		25		150	5.0	1.0	1.0	6.0	10	PG		GP	
GT-81	GT	.125		0.1		25	10	75	5.0	1.0	1.0	6.0	10	PG	14	GP	
GT-81H	GT	.09		.05		12		80	5.0	1.0	1.0	6.0	10	PG		AF	
GT-81HS	GT	.150		0.2		25		120	5.0	1.0	1.0	6.0	10	PG		GP	
GT-82	GT	.125		0.1		25		150	5.0	1.0	1.0	6.0	10	PG		GP	
GT-83	GT	.125		0.2		25		40	5.0	1.0	1.0	10		PG		GP	
GT-87	GT	.125		0.2		25		38	5.0	1.0	1.0	10		PG		GP	
GT-88	GT	.125		0.2		25		80	5.0	1.0	1.0	10		PG		GP	
GT-109	GT	.125		0.1		25	10	120	5.0	1.0	1.0	6.0	10	PG	14	GP	
GT-122	GT	.125		0.2		25		80	5.0	1.0	1.0	10		PG		GP	
GT-123	GT	0.1		0.2		18	15	90	5.0	1.0	1.0	5.0	20	PG		SW	
GT-153	GT	0.1		0.2		25		18	5.0	1.0	1.0	4.0	20	PG		SW	
GT-167	GT	0.1		0.2		25		23	5.0	1.0	1.0			NG		SW	

GT-210H HA7732

TRANSISTOR obsolete*	MFG	MAXIMUM						GAIN				MAX	@	TYPE	BASE	USE	typ
		P_C (watts)		I_C	V_{CE}	V_{CB}	V_{EB}	typ h_{fe}	V_{CE}	I_C ma amp*	freq kc mc*	I_{CBO} μa ma*	V_{CE}				f_t $f_{\alpha b}$*
		T_A	T_C	amps													
GT-210H	GT	.09		.05		12		180	5.0	1.0	1.0	20	10	PG		AF	
GT-222	GT	.125		0.1		12		20	5.0	1.0	1.0	6.0	10	PG		GP	
GT-229	GT	0.1		0.2		8.0		8.0	5.0	1.0	1.0			NG		GP	
GT-269	GT	0.1		0.2		25			5.0	1.0	1.0	3.0	12	PG		SW	
GT-758	GT	0.1		0.2		20		15	5.0	1.0	1.0	3.0	15	PG		GP	
GT-759	GT	0.1		0.2		18		20	5.0	1.0	1.0	4.0	15	PG		SW	
GT-759R	GT	.09		0.1		12		25	5.0	1.0	1.0	6.0		PG		RF	
GT-760	GT	0.1		.05		15		40	5.0	1.0	1.0	1.0		PG		SW	
GT-760R	GT	.09		0.1		10		40	5.0	1.0	1.0	6.0		PG		RF	
GT-761	GT	0.1		.05		15		75	5.0	1.0	1.0	1.0		PG		SW	
GT-761R	GT	.09		0.1		10		70	5.0	1.0	1.0	6.0		PG		RF	
GT-762	GT	0.1		.05		6.0		100	5.0	1.0	1.0	1.0		PG		SW	
GT-762R	GT	.09		0.1		6.0		120	5.0	1.0	1.0	6.0		PG		RF	
GT-763	GT	0.1		.05		6.0		120	5.0	1.0	1.0	1.0		PG		SW	
GT-764	GT	0.1		0.2		18		200	5.0	1.0	1.0	4.0	15	PG		SW	
GT-792	GT	0.1		0.1		20								NG		SW	
GT-903	GT	0.1		0.2		20								NG		SW	
GT-904	GT	0.1		0.2		20								NG		SW	
GT-905	GT	0.1		0.2		20								NG		SW	
GT-947	GT	0.1		0.2		15								NG		SW	
GT-948	GT	0.1		0.2		20								NG		SW	
GT-949	GT	0.1		0.2		20								NG		SW	
GT-1200	GT	.12				90	20	35	5.0	1.0	1.0	7.0	5.0	NG	4	GP	
GT-1658	GT					25		150	.25	20	DC	5.0	12	NG	6	SW	10*
H1	MH		20	0.8		60		14	2.0	1.0	DC	8*	60	PG	51	GP	.15
H2	MH		20	1.4		60		55	2.0	1.0	DC	8*	60	PG	51	GP	0.4
H3	MH		5.0	.35		60		15	2.0	4.0	DC	1*	60	PG	51	GP	
H3A	MH		5.0	.35		60		15	2.0	4.0	DC	1*	60	PG	51	GP	
H4	MH		5.0	0.5		60		22	2.0	4.0	DC	1*	60	PG	51	GP	
H4A	MH		5.0	0.5		60		22	2.0	4.0	DC	1*	60	PG	51	GP	
H5	MH	SAME AS 2N538A BY MH.															
H5A	MH	SAME AS 2N538A BY MH.															
H6	MH	SAME AS 2N539A BY MH.															
H6A	MH	SAME AS 2N539A BY MH.															
H7	MH	SAME AS 2N540A BY MH.															
H7A	MH	SAME AS 2N540A BY MH.															
H10	MH		35	15				38	2.0	1*	DC	7*	60	PG	49	GP	
H10	SJ		80	20		80	40	40	1.5	15*	DC	5*	80	PG	72	AF	
H12	MH		25	30		60	28	50	2.0	10*	DC	7*	60	PG	49	GP	
H12A	MH		25	30		80	28	50	2.0	10*	DC	20*	80	PG	49	GP	
H15A	SJ	16	80	20	60	80	40	40	1.5	15*	DC	5*	80	PG	72	AF	.08
H15B	SJ	16	80	20	80	80	40	100	1.5	15*	DC	5*	80	PG	72	AF	.08
H45	MH		10	3.0		80	28	20	2.0	2*	DC	10*	80	PG	51	GP	0.5
H200E	MH		60	10	50									PG	52	GP	
HA7520	HU				35	35	35	12	5.0	1.0	1.0	0.1	30	PS	83	GP	0.5*
HA7522	HU				15	15	15	23	5.0	1.0	1.0	0.1	12	PS	83	GP	0.5*
HA7523	HU				35	35	35	23	5.0	1.0	1.0	0.1	30	PS	83	GP	0.5*
HA7524	HU				60	60	60	23	5.0	1.0	1.0	0.1	50	PS	83	GP	
HA7525	HU				110	110	110	23	5.0	1.0	1.0	0.1	90	PS	83	GP	0.5*
HA7526	HU				15	15	15	47	5.0	1.0	1.0	0.1	12	PS	83	GP	0.5*
HA7527	HU				35	35	35	47	5.0	1.0	1.0	0.1	30	PS	83	GP	0.5*
HA7528	HU				60	60	60	47	5.0	1.0	1.0	0.1	50	PS	83	GP	0.5*
HA7529	HU				90	90	90	23	5.0	1.0	1.0	0.1	70	PS	83	GP	0.5*
HA7530	HU				35	35	35	12	5.0	1.0	1.0	0.1	30	PS	2	GP	0.5*
NS731	NS	0.4			15	15	4.0	34				1.0		NS	2	GP	
HA7531*	HU	0.4			60	60	60	12	5.0	1.0	1.0	0.1	50	PS	2	GP	0.5*
HA7531	HU	1.0	5.0		60	60	60	12	5.0	1.0	1.0	0.1	50	PS	83	GP	0.5*
HA7532	HU				15	15	15	23	5.0	1.0	1.0	0.1	12	PS	2	GP	0.5*
HA7533	HU				35	35	35	23	5.0	1.0	1.0	0.1	30	PS	2	GP	0.5*
HA7534	HU				60	60	60	23	5.0	1.0	1.0	0.1	50	PS	2	GP	0.5*
HA7535	HU				110	110	110	23	5.0	1.0	1.0	0.1	90	PS	2	GP	0.5*
HA7536	HU				15	15	15	47	5.0	1.0	1.0	0.1	12	PS	2	GP	0.5*
HA7537	HU				35	35	35	47	5.0	1.0	1.0	0.1	30	PS	2	GP	0.5*
HA7538	HU				60	60	60	47	5.0	1.0	1.0	0.1	50	PS	2	GP	0.5*
HA7539	HU				90	90	90	23	5.0	1.0	1.0	0.1	70	PS	2	GP	0.5*
HA7597	HU	1.0	5.0	.25	40	35	30	14	5.0	3.0	1.0	0.1	30	PS	83	GP	
HA7598	HU	1.0	5.0	.25	35	50	50	28	5.0	3.0	1.0	0.1	30	PS	83	GP	
HA7599	HU	1.0	5.0	.25	30	20	20	60	5.0	3.0	1.0	0.1	30	PS	83	GP	
HA7630	HU	0.4	1.0		40	40	20	18	10	5.0	1.0	5.0	10	PS	2	GP	
HA7631	HU	0.4	1.0		80	80	40	18	10	5.0	1.0	2.0	10	PS	2	GP	
HA7632	HU	0.4	1.0		40	40	20	60	10	5.0	1.0	5.0	10	PS	2	GP	
HA7633	HU	0.4	1.0		80	80	40	60	10	5.0	1.0	2.0	10	PS	2	GP	
HA7730	HU	0.4	1.0		40	40	20	18	10	5.0	1.0	5.0	10	PS	2	GP	
HA7731	HU	0.4	1.0		80	80	40	18	10	5.0	1.0	2.0	10	PS	2	GP	
HA7732	HU	0.4	1.0		40	40	20	60	10	5.0	1.0	5.0	10	PS	2	GP	

TRANSISTOR obsolete*	MFG	MAXIMUM						GAIN				MAX	@	TYPE	BASE	USE	typ
		P_C (watts)		I_C	V_{CE}	V_{CB}	V_{EB}	typ h_{fe}	V_{CE}	I_C ma amp*	freq kc mc*	I_{CBO} μa ma*	V_{CE}				f_t f_{ab}*
		T_A	T_C	amps													
HA7733	HU	0.4	1.0		80	80	40	60	10	5.0	1.0	2.0	10	PS	2	GP	
HA9048	HU	.275			25	25	5.0	20	1.0	10	DC	0.3	20	PS	2	GP	
HA9049	HU	.275			25	25	5.0	50	1.0	10	DC	0.2	20	PS	2	GP	
L10	SJ		80	20		40	40	40	1.5	15*	DC	5.0*	40	PG	72	AF	
L15A	SJ	16	80	20	30	40	40	40	1.5	15*	DC	5.0*	40	PG	72	AF	.08
L15B	SJ	16	80	30	30	40	40	100	1.5	15*	DC	5.0*	40	PG	72	AF	.08
L5022A	PH	0.1		.15	25			55						P		AF	
L5024A	PH	.05		.15	12			78						P		AF	
L5025A	PH	.15		.15	25			75						P		AF	
L5028	PH	MATCHED PAIR OF L5024S.															
L5029	PH	MATCHED PAIR OF L5025S.															
L5113L	PH	.009		.003	4.5			42						P		RF	
L5114A	PH	.009		.003	4.5			24						P		RF	
L5123	PH	.009		.003	9.0			24						P		RF	
L5125	PH	.009		.003	6.0			40						P		RF	
L5126	PH	.009		.003	6.0			20						P		RF	
LT-11	RA		20	3.0	60	60	30					1*	60	PG	12	GP	
LT-12	RA		20	3.0	60	60	30					1*	60	PG	12	GP	
LT-13	RA		20	3.0	60	60	30					1*	60	PG	12	GP	
LT-14	RA		20	3.0	60	60	30					1*	60	PG	12	GP	
LT-15	RA		20	3.0	60	60	30					1*	60	PG	12	GP	
LT5163*	CE		20	3.0	35	60	15					200	60	N	72	GP	
LT5163L*	CE		20	3.0	35	60	15					200	60	N	72	GP	
LT5164*	CE		20	3.0	45	80	15					300	80	N	72	GP	
LT5164L*	CE		20	3.0	45	80	15					300	80	N	72	GP	
LT5165			20	3.0	25	35	15					100	35	N	69	GP	
LT5165L*	CE		20	3.0	25	35	15					100	35	N	72	GP	
MA112	MO	.175		0.2	15	15	15	45	6.0	1.0	1.0	15	15	PG	2	GP	
MA113	MO	.175		0.2	15	15	15	85	6.0	1.0	1.0	15	15	PG	2	GP	
MA114	MO	.175		0.2	15	15	15	175	6.0	1.0	1.0	15	15	PG	2	GP	
MA115	MO	.175		0.2	15	15	15	75	6.0	1.0	1.0	15	15	PG	2	GP	
MA116	MO	.175		0.2	15	15	15	150	6.0	1.0	1.0	15	15	PG	2	GP	
MA117	MO	.175		0.2	15	15	15	140	6.0	1.0	1.0	15	15	PG	2	GP	
MA286	MO	.175		0.2	10	10	10	30	6.0	1.0	1.0			PG	2	GP	
MA287	MO	.175		0.2	10	10	10	160	6.0	1.0	1.0			PG	2	GP	
MA288	MO	.175		0.2	10	10	10	300	6.0	1.0	1.0			PG	2	GP	
MF1161	MO	0.2	0.3	.05	20	40	3.0	30	10	2.0	1.0	.01	15	NS	7	RF	600
MF1162	MO	0.2	0.3	.05	20	40	3.0	30	10	2.0	1.0	.01	15	NS	7	RF	600
MF1163	MO	0.2	0.3	.05	15	30	3.0	30	10	2.0	1.0	.01	15	NS	7	RF	500
MF1164	MO	0.1	0.3	.05	15	30	3.0	30	10	2.0	1.0	.01	15	NS	7	RF	500
MHM1001	MH	0.4	1.33		40	60	12	1*	5.0	1.0	1.0	10	30	NS	5	SP	100
MHM1101	MH	.26	1.0		40	60	12	1*	5.0	1.0	1.0	10	30	NS	5	SP	100
MHM2001	MH			5.0	80	120	12	2K		1*	DC	0.1	60	NG	42	RF	50
MHM2101	MH			5.0	80	120	12	2K		1*	DC	0.1	60	NG	62	RF	50
MHT1802	MH			65	60	80	30	2.5	2.0	5*	100	5*	80	PG	43	GP	0.3
MHT1803	MH			65	45	60	30	2.5	2.0	5*	100	5*	60	PG	43	GP	0.3
MHT1804	MH			65	30	40	20	2.5	2.0	5*	100	5*	40	PG	43	GP	0.3
MHT1902	MH			65	60	80	30	2.5	2.0	5*	100	5*	80	PG	29	GP	0.3
MHT1903	MH			65	45	60	30	2.5	2.0	5*	100	5*	60	PG	29	GP	0.3
MHT1904	MH			65	30	40	20	2.5	2.0	5*	100	5*	40	PG	29	GP	0.3
MHT2002	MH			65	60	80	30	2.5	2.0	5*	100	5*	80	PG	61	GP	0.3
MHT2003	MH			65	45	60	30	2.5	2.0	5*	100	5*	60	PG	61	GP	0.3
MHT2004	MH			65	30	40	20	2.5	2.0	5*	100	5*	40	PG	61	GP	0.3
MHT2101	MH			150	5.0	10		75		150*	DC			NG	56	GP	.35
MHT2205	MH			50	5.0	10		70		50*	DC			NG	25	GP	.45
MHT2305	MH			50	5.0	10		70		50*	DC			NG	43	GP	.45
MHT4401	MH	0.8	4.0		60	60	5.0	120	4.0	150	DC	1.0	30	NS	5	SW	80
MHT4402	MH	0.8	4.0		100	120	5.0	120	4.0	150	DC	2.0	60	NS	5	SW	80
MHT4411	MH		4.0	0.6	40	60	5.0	40	4.0	150	DC	1.0	30	NS	5	SW	100
MHT4412	MH		4.0	0.6	40	60	5.0	80	4.0	150	DC	1.0	30	NS	5	SW	100
MHT4413	MH		4.0	0.6	40	60	5.0	200	4.0	150	DC	1.0	30	NS	5	SW	100
MHT4414	MH		4.0	0.6	60	80	5.0	40	4.0	150	DC	1.0	30	NS	5	SW	100
MHT4415	MH		4.0	0.6	60	80	5.0	80	4.0	150	DC	1.0	30	NS	5	SW	100
MHT4416	MH		4.0	0.6	60	80	5.0	200	4.0	150	DC	1.0	30	NS	5	SW	100
MHT4417	MH		4.0	0.6	80	120	5.0	40	4.0	150	DC	2.0	60	NS	5	SW	100
MHT4418	MH		4.0	0.6	80	120	5.0	80	4.0	150	DC	2.0	60	NS	5	SW	100
MHT4419	MH		4.0	0.6	80	120	5.0	200	4.0	150	DC	2.0	60	NS	5	SW	120
MHT4451	MH		4.0	5.0	40	80	8.0	40	5.0	1*	DC	1.0	60	NS	5	RF	30
MHT4452	MH		4.0	5.0	80	100	8.0	40	5.0	1*	DC	1.0	60	NS	5	RF	30
MHT4453	MH		4.0	5.0	40	80	8.0	80	5.0	1*	DC	1.0	60	NS	5	RF	30
MHT4454	MH		4.0	5.0	80	100	8.0	80	5.0	1*	DC	1.0	60	NS	5	RF	30
MHT4455	MH		4.0	5.0	40	80	8.0	200	5.0	1*	DC	1.0	60	NS	5	RF	30
MHT4456	MH		4.0	5.0	80	100	8.0	200	5.0	1*	DC	1.0	60	NS	5	RF	30
MHT4501	MH	1.4	10	0.6	30	60	5.0	90	4.0	150	DC	1.0	30	NS	30	SW	80
MHT4502	MH	1.4	10	0.6	50	120	5.0	90	4.0	150	DC	2.0	60	NS	30	SW	80

TRANSISTOR obsolete*	MFG	MAXIMUM						GAIN				MAX	@	TYPE	BASE	USE	typ
		P_C (watts)		I_C	V_{CE}	V_{CB}	V_{EB}	typ h_{fe}	V_{CE}	I_C ma amp*	freq kc mc*	I_{CBO} μa ma*	V_{CE}				f_t f_{ab}*
		T_A	T_C	amps													
MHT4511	MH		10	0.6	40	60	5.0	40	4.0	150	DC	1.0	30	NS	30	SW	120
MHT4512	MH		10	0.6	40	60	5.0	80	4.0	150	DC	1.0	30	NS	30	SW	120
MHT4513	MH		10	0.6	40	60	5.0	200	4.0	150	DC	1.0	30	NS	30	SW	120
MHT4514	MH		10	0.6	60	80	5.0	40	4.0	150	DC	1.0	30	NS	30	SW	120
MHT4515	MH		10	0.6	60	80	5.0	80	4.0	150	DC	1.0	30	NS	30	SW	120
MHT4516	MH		10	0.6	60	80	5.0	200	4.0	150	DC	1.0	30	NS	30	SW	120
MHT4517	MH		10		80	120	5.0	35		150	DC	2.0	60	NG	30	RF	50
MHT4518	MH		10		80	120	5.0	75		150	DC	2.0	60	NG	30	RF	50
MHT4519	MH		10		80	120	5.0	175		150	DC	2.0	60	NG	30	RF	50
MHT4551	MH		10	5.0	40	80	8.0	40	5.0	1*	DC	1.0	60	NS	30	RF	30
MHT4552	MH		10	5.0	80	100	8.0	40	5.0	1*	DC	1.0	60	NS	30	RF	30
MHT4553	MH		10	5.0	40	80	8.0	80	5.0	1*	DC	1.0	60	NS	30	RF	30
MHT4554	MH		10	5.0	80	100	8.0	80	5.0	1*	DC	1.0	60	NS	30	RF	30
MHT4555	MH		10	5.0	40	80	8.0	200	5.0	1*	DC	1.0	60	NS	30	RF	30
MHT4556	MH		10	5.0	80	100	8.0	200	5.0	1*	DC	1.0	60	NS	30	RF	30
MHT6001	MH		10	5.0	50	100	5.0	20	5.0	1*	DC	1.0	60	NS	59	RF	30
MHT6011	MH		40	5.0	40	80	8.0	40	5.0	1*	DC	1.0	60	NS	59	RF	30
MHT6012	MH		40	5.0	80	100	8.0	40	5.0	1*	DC	1.0	60	NS	59	RF	30
MHT6013	MH		40	5.0	40	80	8.0	80	5.0	1*	DC	1.0	60	NS	59	RF	30
MHT6014	MH		40	5.0	80	100	8.0	80	5.0	1*	DC	1.0	60	NS	59	RF	30
MHT6015	MH		40	5.0	40	80	8.0	200	5.0	1*	DC	1.0	60	NS	59	RF	30
MHT6016	MH		40	5.0	80	100	8.0	200				1.0	60	NS	59	RF	30
MHT7401	MH			10	40	60	5.0	75		5*	DC	1.0	60	NS	2	RF	50
MHT7402	MH			10	60	80	5.0	75		5*	DC	1.0	60	NS	2	RF	50
MHT7403	MH			10	80	100	5.0	75		5*	DC	1.0	60	NS	2	RF	50
MHT8002	MH				60	80	8.0	75		10*	DC	100	60	NG	59	RF	40
MHT8003	MH				80	100	8.0	75		10*	DC	100	60	NG	59	RF	40
MM486	MO	0.8	3.0	0.8	30	60	5.0	4.0	20	20	100*	.01	50	NS	2	SW	400
MM487	MO	0.8	3.0	0.8	30	60	5.0	4.0	20	20	100*	.01	50	NS	2	SW	400
MM488	MO	0.8	3.0	0.8	30	60	5.0	4.0	20	20	100*	.01	50	NS	2	SW	400
MM511	MO	0.5	1.8	0.8	30	60	5.0	4.0	20	20	100*	.01	50	NS	2	SW	400
MM512	MO	0.5	1.8	0.8	30	60	5.0	4.0	20	20	100*	.01	50	NS	2	SW	400
MM513	MO	0.5	1.8	0.8	30	60	5.0	4.0	20	20	100*	.01	50	NS	2	SW	400
MM1151	MO	0.1		.05	20	30	1.0	30	10	3.0	1.0	5.0	10	PG	7	RF	500
MM1152	MO	0.1		.05	20	30	1.0	30	10	3.0	1.0	5.0	10	PG	7	RF	500
MM1153	MO	0.1		.05	15	30	0.5	30	10	3.0	1.0	5.0	10	PG	7	RF	550
MM1154	MO	0.1		.05	15	30	0.5	30	10	3.0	1.0	5.0	10	PG	7	RF	550
MP500	MO		170	60	30	45	25	47	2.0	15*	DC	15*	45	PG	43	GP	
MP500A	MO		170	60	30	45	25	47	2.0	15*	DC	4*	45	PG	43	GP	
MP501	MO		170	60	45	60	30	47	2.0	15*	DC	15*	60	PG	43	GP	
MP501A	MO		170	60	45	60	30	47	2.0	15*	DC	4*	60	PG	43	GP	
MP502	MO		170	60	60	75	40	47	2.0	15*	DC	15*	75	PG	43	GP	
MP502A	MO		170	60	60	75	40	47	2.0	15*	DC	4*	75	PG	43	GP	
MP503A	MO		170	60	75	90	45	47	2.0	15*	DC	4*	90	PG	43	GP	
MP504	MO		170	60	30	45	25	63	2.0	15*	DC	15*	45	PG	43	GP	
MP504A	MO		170	60	30	45	25	63	2.0	15*	DC	4*	45	PG	43	GP	
MP505	MO		170	60	45	60	30	63	2.0	15*	DC	15*	60	PG	43	GP	
MP505A	MO		170	60	45	60	30	63	2.0	15*	DC	4*	60	PG	43	GP	
MP506	MO		170	60	60	75	40	63	2.0	15*	DC	15*	75	PG	43	GP	
MP506A	MO		170	60	60	75	40	63	2.0	15*	DC	4*	75	PG	43	GP	
MP507	MO		170	60	75	90	45	63	2.0	15*	DC	4*	90	PG	43	GP	
MP507A	MO		170	60	75	90	45	63	2.0	15*	DC	4*	90	PG	43	GP	
M1X	TI	0.6		.05		80		455	5.0	2.0	DC	1.0	60	NS	2	GP	
NS381	NS	0.3			20		5.0	40	0.4	3.0	DC			NS	2	SW	400
NS382	NS	0.3			20		5.0	80	0.4	30	DC			NS	2	SW	400
NS475	NS	0.4			30	30	6.0	35		100	DC	0.2	1.0	NS	2	GP	80
NS476	NS	0.4			30	30	6.0	70		100	DC	0.2	1.0	NS		GP	80
NS477	NS	0.4			30	30	6.0	190		100	DC	0.2	1.0	NS		GP	80
NS478	NS	0.4			60	60	8.0	35		100	DC	0.2	1.0	NS		GP	80
NS479	NS	0.4			60	60	8.0	70		100	DC	0.2	1.0	NS		GP	80
NS480	NS	0.4			60	60	8.0	190		100	DC	0.2	1.0	NS		GP	80
NS661	NS	0.4			15	30	30					1.0		PS	2	GP	
NS662	NS	0.4			35	40	40	44				1.0		PS	2	GP	
NS663	NS	0.4			35	50	50	26				1.0		PS	2	GP	
NS664	NS	0.4			50	50	50	16				1.0		PS	2	GP	
NS665	NS	.15			15	30	30					1.0		PS	2	GP	
NS666	NS	.15			35	40	40	44				1.0		PS	2	GP	
NS667	NS	.15			35	50	50	26				1.0		PS	2	GP	
NS668	NS	.15			50	50	50	16				1.0		PS	2	GP	
NS732	NS	0.4			15	15	4.0	82				1.0		NS	2	GP	
NS733	NS	0.4			30	30	4.0	34				1.0		NS	2	GP	
NS734	NS	0.4			30	30	4.0	82				1.0		NS	2	GP	
NS1110	NS	0.5					4.0					1.0		NS	2	GP	
OC16	MU	24		3.0		16		45	7.0	300	DC	2.5*	14	PG		AF	
2-OC16	MU		24	3.0		32						100	14	PG		AF	0.2*

TRANSISTOR obsolete*	MFG	MAXIMUM						GAIN				MAX	@	TYPE	BASE	USE	typ
		P_C (watts)		I_C amps	V_{CE}	V_{CB}	V_{EB}	typ h_{fe}	V_{CE}	I_C ma amp*	freq kc mc*	I_{CBO} μa ma*	V_{CE}				f_t $f_{\alpha b}$*
		T_A	T_C														
OC19	MU		24	3.0	32	32		45	7.0	300	DC	100	14	PG	72	GP	
OC20	MU		30	10	75	100		50		1*	DC	100	0.5	PG	72	GP	0.1
OC22	AP	16		0.8	24			170		1*	DC	30	10	PG	72	SW	2.0
OC22	MU	18.5		2.0	32	47		150	2.0	1*	DC	100	10	PG	72	GP	2.0
OC23	AP	16		0.8	24			170		1*	DC	30	10	PG	72	SW	2.0
OC23	MU	18.5		2.0	24	36		150	2.0	1*	DC	2*	40	PG	72	GP	2.5
OC24	AP	16		0.8	24			170		1*	DC	30	10	PG	72	SW	
OC24	MU	18.5		2.0	24	47		150	2.0	1*	DC	2*	40	PG	72	SW	2.5
OC25	MU		22.5	4.0	40	40		50	1.0	1*	DC			PG	72	GP	
OC26	AP	13		3.0	16			45		1.0	DC	100	0.5	PG	72	GP	.15
OC26	MU	12.6		3.5			32		35	1.0	1.0	100	0.5	PG	72	GP	
OC28	AP	30		4.0	80			45		1*	DC	100	0.5	PG	72	GP	.25
OC28	MU		30	10		80		37		1*	DC	100	0.5	PG	72	GP	
OC29	AP	30		4.5	48			120		1*	DC	100	0.5	PG	72	GP	.25
OC29	MU		30	10		60		92		1*	DC	100	0.5	PG	72	GP	
OC30	AP	3.6		1.0	16			50		100	DC	12	14	PG	73	GP	0.3
OC30	MU		4.0	1.4		16								PG	73	AF	
OC35	AP	30		4.5	48			60		1*	DC	100	0.5	PG	72	GP	.15
OC35	MU		30	10		60		50		1*	DC	100	0.5	PG	72	GP	
OC36	AP	30		4.5	60			85		1*	DC	100	0.5	PG	72	GP	.15
OC36	MU		30	10		80		70		1*	DC	100	0.5	PG	72	GP	
OC41	MU	.05		.15		16								PG	32	SW	
OC42	MU	0.5		.15		16								PG	32	SW	
OC43	MU	.05		.15		15								PG	32	SW	18
OC44	AP	.083		.005		15	10	100	6.0	1.0	1.0	0.5	2.0	PG	15	RF	10
OC44	MU	.071		.005		10		100	6.0	1.0	1.0	75	2.0	PG	32	RF	15*
OC45	AP	.083		.005		15	10	75	6.0	1.0	1.0	0.5	2.0	PG	16	RF	5.0
OC45	MU	.071		.005		10		50	6.0	1.0	1.0	40	2.0	PG	32	RF	6.0*
OC46	AP	.083		0.1	20			80		15		3.0	5.0	PG	16	SW	2.5
OC47*	AP	.033		0.1	20			170		15		3.0	5.0	PG	16	SW	5.0
OC53	AP	0.1		.008	3.0			35		.25		3.5	2.0	PG	20	AF	
OC54	AP	.01		.008	3.0			55		.25		3.5	2.0	PG	20	AF	
OC55	AP	.01		.008	3.0			80		.25		3.5	2.0	PG	20	AF	
OC56	AP	.01		.008	3.0							3.5	2.0	PG	20	AF	
OC57	AP	.01		.008	3.0			35		.25		1.5	2.0	PG	22	AF	
OC57	MU	.01		.01		7.0		35	0.5	.25	1.0	100	0.5	PG	21	GP	.02*
OC58	AP	.01		.008	3.0			55		.25		1.5	2.0	PG	22	AF	1.0
OC58	MU	.01		.01		7.0		55	0.5	.25	1.0	100	0.5	PG	21	GP	.02*
OC59	AP	.01		.008	3.0			80		.25		1.5	2.0	PG	22	AF	1.2
OC59	MU	.01		.01		7.0		80	0.5	.25	1.0	100	0.5	PG	21	GP	.02*
OC60	AP	.01		.008	3.0			60		.25		1.5	2.0	PG	22	AF	1.8
OC60	MU	.01		.01		7.0						120	0.5	PG	21	GP	
OC65	MU	.025		.01	10	10		30	2.0	0.5	1.0	225	4.5	PG	36	GP	
OC66	MU	.025		.01	10	10		47	2.0	3.0	1.0	12	4.5	PG	36	GP	
OC70	AP	.125		.04	30			30		0.5		5.0	4.5	PG	16	GP	
OC70	MU	.125		.01		20		30		0.5	1.0	13	4.5	PG	32	AF	
OC71	AP	.125		.04	30			50		3.0		5.0	4.5	PG	16	GP	
OC71	MU	.125		.01		30		52		3.0	1.0	13	4.5	PG	32	AF	
OC72	MU	.125		.25		16		70		10	DC			PG	32	GP	.35*
2-OC72	MU	.125		.25		16		70		10	DC			PG	32	GP	.35*
OC73	MU	.075		.01		30		45	10	0.5	DC	200	4.5	PG		AF	
OC74	AP	.55		0.2	20			80		300		10	9.0	PG	34	GP	1.0
OC75	AP	.125		.04	30			90		3.0		5.0	4.5	PG	16	GP	.75
OC75	MU	.125		.01		30		45		3.0	10	13	4.5	PG	32	AF	
OC76	MU	.125		.25		32		45		10	DC			PG	32	GP	.35*
OC77	MU	.125		.25		60		45		10	DC			PG	32	GP	.35*
OC79	AP	.55		0.2	26			58		300		10	12	PG	34	GP	1.0
OC80	AP	.55		0.5	32			100		600		10	12	PG	34	SW	1.0
OC81	MU	1.0		0.2		10								PG	32	AF	
OC81D	MU	1.0		.01		16								PG	32	AF	
OC83	MU	.16		1.0		32		110		50	DC			PG	32	GP	.85
2-OC83	MU	.24	0.6	1.0	20	32		100	1.0	300	DC	10	10	PG	24	GP	.85
OC84	MU	.16		1.0		32		130		50	DC			PG	32	GP	1.0
2-OC84	MU	.24	0.6	1.0	32	32		100	1.0	300	DC	10	10	PG	24	GP	1.0
OC122	AP	0.3		1.5	32			180		100		40	24	NG	37	SW	1.0
OC122	MU	.205		2.0	28	32								PG	37	SW	1.3
OC123	AP	0.3		1.5	50			180		100		20	10	NG	37	SW	1.5
OC123	MU	.205		2.0		50								PG	37	SW	1.5
OC139	AP	0.1		0.2	20			45		15		0.8	5.0	NG	37	SW	3.0
OC139	MU	.06		.25		20						3.0	5.0	NG	32	SW	3.5*
OC140	AP	0.1		0.2	20			75		15		0.8	5.0	NG	34	SW	4.0
OC140	MU	.06		.25		20								NG	32	SW	4.5*
OC141	AP	0.1		0.2	20			150		15		0.8	5.0	NG	36	SW	7.0
OC141	MU	.06		.25		20								NG	32	SW	9.0*
OC169	AP	.083		.01		20	0.8	100	6.0	1.0	1.0	1.5	6.0	PG	37	RF	70

TRANSISTOR obsolete*	MFG	MAXIMUM						GAIN				MAX	@	TYPE	BASE	USE	typ
		P_C (watts)		I_C amps	V_{CE}	V_{CB}	V_{EB}	typ h_{fe}	V_{CE}	I_C ma amp*	freq kc mc*	I_{CBO} μa ma*	V_{CE}				f_t $f_{\alpha b}$*
		T_A	T_C														
OC170	AP	.083		.01		20	0.8	100	6.0	1.0	1.0	1.5	6.0	PG	37	RF	70
OC170	MU	.082		.01		20		100	6.0	1.0	1.0	13	6.0	PG	37	RF	
OC171	AP	.083		.01		20	0.8	100	6.0	1.0	1.0	1.5	6.0	PG	37	RF	70
OC171	MU	.082		.01		20		150	6.0	1.0	1.0	8.0	6.0	PG	37	RF	75
OC200	AP	.25		.035	25			20		1.0		0.8	5.0	PS	34	GP	
OC200	MU	0.1		0.1		25		37		1.0				PS	32	GP	0.7
OC201	AP	.25		.05	25	25	20	35	6.0	1.0	1.0	0.1	10	PS	34	GP	3.0*
OC201	MU	0.1		0.1		25		50		1.0	DC	0.1	10	PS	32	GP	30
OC202	MU	0.1		0.1		15		70	6.0	1.0	1.0			PS	32	GP	30
OC203	MU	0.1		.05		60		15		1.0	DC	0.1	10	PS	32	GP	15
OC204	MU	.125		0.5		32		24		30	DC	10	32	PS	32	GP	1.5
OC205	MU	.125		0.5		60		24		30	DC	20	60	PS	32	GP	1.5
OC206	MU	.125		0.5		32		30		30	DC	10	32	PS	2	GP	2.0
OC430	BR	.33		.05	10	10		15	5.0	1.0	1.0	0.4	10	PS	2	GP	1.0
OC430K	BR		.66	.05	10	10		15	5.0	1.0	1.0	0.4	10	PS	2	GP	1.0
OC440	BR	.33		.05	30	30		15	5.0	1.0	1.0	0.4	30	PS	2	GP	1.0
OC440K	BR			.05	30	30		15	5.0	1.0	1.0	0.4	30	PS	2	GP	1.0
OC450	BR	.33		.05	75	75		20	5.0	1.0	1.0	0.4	75	PS	2	GP	1.0
OC450K	BR		.66	.05	75	75		20	5.0	1.0	1.0	0.4	75	PS	2	GP	1.0
OC460	BR	.33		.05	10	10		30	5.0	1.0	1.0	0.4	10	PS	2	GP	1.0
OC460K	BR		.66	.05	10	10		30	5.0	1.0	1.0	0.4	10	PS	2	GP	1.0
OC463	BR	.33		.05	10	10		30	5.0	1.0	1.0	2.0	10	PS	2	GP	5.0
OC463K	BR		.66	.05	10	10		30	5.0	1.0	1.0	2.0	10	PS	2	GP	5.0
OC465	BR	.33		.05	20	20		30	5.0	1.0	1.0	0.4	20	PS	2	GP	1.0
OC465K	BR		.66	.05	20	20		30	5.0	1.0	1.0	0.4	20	PS	2	GP	1.0
OC466	BR	.33		.05	10	10		30	5.0	1.0	1.0	2.0	10	PS	2	GP	1.0
OC466K	BR		.66	.05	10	10		30	5.0	1.0	1.0	2.0	10	PS	2	GP	1.0
OC468	BR	.33		.05	10	10		60	5.0	1.0	1.0	2.0	10	PS	2	GP	1.0
OC468K	BR		.66	.05	10	10		60	5.0	1.0	1.0	2.0	10	PS	2	GP	1.0
OC469	BR	.33		.05	20	32		10	.35	20	1.0	2.0	20	PS	2	SW	1.0
OC469K	BR		.66	.05	20	32		10	.35	20	1.0	2.0	20	PS	2	SW	1.0
OC470	BR	.33		.05	30	30		30	5.0	1.0	1.0	0.4	30	PS	2	GP	1.0
OC470K	BR		.66	.05	30	30		30	5.0	1.0	1.0	0.4	30	PS	2	GP	1.0
OC480	BR	.33		.05	125	125		15	5.0	1.0	1.0	2.0	125	PS	2	GP	1.0
OC480K	BR		.66	.05	125	125		15	5.0	1.0	1.0	2.0	125	PS	2	GP	1.0
OC700	BR	.33	.66	.05		25	25	30	6.0	1.0	1.0	0.1	10	PS	2	GP	1.7
OC700A	BR	.33	.66	.05		25	25	25	6.0	1.0	1.0	0.1	10	PS	2	GP	1.7
OC700B	BR	.33	.66	.05		25	25	30	6.0	1.0	1.0	0.1	10	PS	2	GP	1.7
OC701	BR	.33	.66	.05		80	30	35	6.0	1.0	1.0	0.1	10	PS	2	GP	1.0
OC702	BR	.33	.66	.05		25	25	70	6.0	1.0	1.0	0.1	10	PS	2	GP	2.2
OC702A	BR	.33	.66	.05		15	15	70	6.0	1.0	1.0	0.1	10	PS	2	GP	2.2
OC702B	BR	.38	.66	.05		10	10	70	6.0	1.0	1.0	0.1	10	PS	2	GP	2.2
OC703	BR	.38	.66	.05		80	30	15	6.0	1.0	1.0	0.1	10	PS	2	GP	0.5
OC703A	BR	.38	.66	.05		100	30	15	6.0	1.0	1.0	0.1	10	PS	2	GP	0.5
OC704	BR	.38	.66	.05		3.0	3.0	70	3.0	1.0	1.0	0.1	10	PS	2	GP	5.0
OC740	BR	.38		.05	15	15	15					.05	15	PS	2	SP	
OC740M	BR	.38		.05	15	15	15					.05	15	PS	2	SP	
OC740Q	BR	.38		.05	15	15	15					.05	15	PS	2	SP	
OC742	BR	.38		.05	25	25	25					.05	25	PS	2	SP	
OC742M	BR	.38		.05	25	25	25					.05	25	PS	2	SP	
OC742Q	BR	.38		.05	25	25	25					.05	25	PS	2	SP	
PADT20*	AP	.083		.01		20	0.8	150	6.0	1.0	1.0	1.5	5.0	PG	37	RF	70
PADT21*	AP	.083		.01		20	0.8	150	6.0	1.0	1.0	1.5	6.0	PG	37	RF	70
PADT22*	AP	.083		.01		20	0.8	150	6.0	1.0	1.0	1.5	6.0	PG	37	RF	70
PADT23*	AP	0.1		0.1		35	0.8	150	6.0	1.0	1.0	1.5	6.0	PG	37	RF	70
PADT24*	AP	0.1		0.1		35	0.8	150	6.0	1.0	1.0	1.5	6.0	PG	37	RF	70
PADT25*	AP	0.1		0.1		35	0.8	150	6.0	1.0	1.0	1.5	6.0	PG	37	RF	70
PADT26*	AP	0.1		0.1		35	0.8	150	6.0	1.0	1.0	1.5	6.0	PG	37	RF	70
PADT27*	AP	0.1		0.1		35	0.8	150	6.0	1.0	1.0	1.5	6.0	PG	37	RF	70
PADT28	AP	.083		.01		35	0.8	120	6.0	1.0	1.0	10	6.0	PG	37	RF	220
PADT30	AP	.083		.01		25	0.4		6.0	1.0	1.0	10	6.0	PG	37	RF	200
PADT31*	AP	0.1		.01		35	0.8	150	6.0	1.0	1.0	1.5	6.0	PG	37	RF	70
PADT35	AP	.415		.03		50		32	6.0	1.0	1.0	5.0	6.0	PG	37	RF	175
PADT40	AP	.094		.04	20			50		30		3.0	5.0	PG	2	SW	600
PADT50	AP		16.5	.75	75	70								PG	72	SW	60
PADT51	AP	0.1		.05			2.0							PG	37	SW	
PT-2A*	CE	0.1		.01	40									P	1	GP	
PT-25*	CE	0.1		.01	40									P	1	SW	
PT530A	PS	2.0	13	2.0	40	100	5.0	2.0	28	350	70*	.05	28	N	14	RF	210
PT531*	PS	2.0	13	2.0	40	75	4.0	2.5	28	350	30*	.01	28	N	2	RF	210
PT600	PS	2.0	13	2.5	45	60	4.0	30		1*	DC	.01	60	N	2	SW	210
PT601	PS	2.0	13	2.5	45	60	4.0	30	12	1*	DC	.01	60	N	4	SW	210
PT613	PS	2.0	13	2.0	40	100	5.0	2.0	28	350	70*	.05	28	NS	14	RF	210
PT692	PS	2.0	13	2.0	30	75	5.0	2.0	28	350	70*	.05	28	NS	14	RF	210
PT720	PS	.36	1.2	0.2	15	25	0.5	2.5	10	20	1*	.03	15	NS	2	RF	250

TRANSISTOR obsolete*	MFG	MAXIMUM						GAIN				MAX	@	TYPE	BASE	USE	typ
		P_C (watts)		I_C amps	V_{CE}	V_{CB}	V_{EB}	typ h_{fe}	V_{CE}	I_C ma amp*	freq kc mc*	I_{CBO} μa ma*	V_{CE}				f_t $f_{\alpha b}$*
		T_A	T_C														
PT850	PS	0.6	2.0		65	120	5.0	2.5	10	50	20*	.01	60	NS	2	SW	200
PT850A	PS	0.8	2.8		65	120	5.0	2.5	10	50	20*	.01	60	NS	2	SW	200
PT851	PS	0.6	1.0	0.5	20	45	5.0	8.0	10	50	20*	1.5	30	NS	2	GP	
PT900	PS		125	10	50	35	80	5.0	10	3*	10*	25*	30	NS	55	RF	100
PT901	PS			10		140	5.0	10	10	3*	10*	25*	140	NS		RF	
PT901-1	PS			10		140	5.0	10	10	3*	10*	25*	140	NS		RF	
PT902	PS			10		140	5.0	10	10	3*	10*	25*	140	NS		RF	
PT903	PS			10		140	5.0	10	10	3*	10*	25*	140	NS		RF	
PT903-1	PS			10		140	5.0	10	10	3*	10*	25*	140	NS		RF	
R186	PH	.03		.005	30									P		RF	
RD-525A	GP	.025		.005	25							10	25	N		GP	
RD-2517A	GP	.05		.01	30							10	30	N		GP	
RD-2520A	GP	.05		.01	30							10	30	N		GP	
RD-2521A	GP	.05		.01	40							10	30	N		GP	
RR14	RR	.07			25							50	25	P	67	AF	
RR14Y.D	RR	.07			25							50	25	P	67	AF	
RR20	RR	.07			25							50	25	P	67	AF	
RR20Y.D	RR	.07			25							50	25	P	67	AF	
RR21	RR	.07			25							100	25	P	67	AF	
RR34	RR	.07			25							50	25	P	67	AF	
RR34Y.D	RR	.07			25							50	25	P	67	AF	
RR38	RR	.07			25								25	P	67	AF	
RT5001	RH	0.7	3.0		30	60	5.0	4.0	10	50	20*	1.0	30	N	5	SW	
RT5002	RH	0.7	3.0		30	60	5.0	5.0	10	50	20*	1.0	30	N	5	SW	
RT5003	RH	0.7	3.0		45	100	5.0	4.0	10	50	20*	1.0	30	N	5	SW	
RT5004	RH	0.7	3.0		45	100	5.0	5.0	10	50	20*	1.0	30	N	5	SW	
S3126	PH	.009		.003	6.0			40						P		RF	
S3151	PH	.009		.003	6.0			35						P		RF	
S3176	PH	.009		.003	4.5			24						P		RF	
SA-310	SR	.15		.05	10	30		55			DC	.01	15	PS	2	GP	35
SA-311	SR	.15		.05	6.0	30		25			DC	.01	15	PS	2	GP	35
SA-312	SR	.15		.05	10	30		30			DC	.01	15	PS	2	GP	25
SA-313	SR	.15		.05	20	30		18			DC	.01	15	PS	2	GP	20
SA-314	SR	.15		.05	15	30		25			DC	.02	15	PS	2	GP	20
SA-315	SR	.15		.05	12	30		25			DC	.02	15	PS	2	GP	25
SA-316	SR	.15		.05	10	30		25			DC	.003	10	PS	2	GP	20
SA-410	SR	.15		.05	10	30		65			DC	.01	15	PS	2	GP	30
SA-411	SR	.15		.05	6.0	30		45			DC	.01	15	PS	2	GP	30
SA-412	SR	.15		.05	10	30		25			DC	.01	15	PS	2	GP	20
SA-413	SR	.15		.05	20	30		15			DC	.01	15	PS	2	GP	20
SA-414	SR	.15		.05	15	30		20			DC	.02	15	PS	2	GP	20
SA-415	SR	.15		.05	12	30		35			DC	.02	15	PS	2	GP	20
SA-416	SR	.15		.05	10	30		35			DC	.003	10	PS	2	GP	20
SB100	PH	.02		.005	4.5			20				3.0	5.0	P	19		
SB101	PH	.02		.005	5.0			20				3.0	5.0	P	19		
SB102	PH	.02		.005	5.0			70				3.0	5.0	P	19		
SB103	PH	.02		.005	5.0							3.0	5.0	P	19		
SB200	PH	.02		.005	4.5							3.0	5.0	P	19		
SF.T124	CG	.35		0.5		24		30	1.0	250	DC			PG	28	AF	1.0*
SF.T125	CG	.35		0.5		24		70	1.0	250	DC			PG	28	AF	2.0*
SF.T125P	CG	.35		0.5		30		70	1.0	250	DC			PG	47	AF	2.0*
SF.T130	CG	.55		0.5		24		30	1.0	250	DC			PG	80	AF	1.0*
SF.T131	CG	.55		0.5		24		70	1.0	250	DC			PG	80	AF	2.0*
SF.T131P	CG	.55		0.5		30		70	1.0	250	DC			PG	80	AF	2.0*
SF.T143	CG	.35		0.5		45		30	1.0	250	DC			PG	48	AF	1.0*
SF.T144	CG	.35		0.5		45		60	1.0	250	DC			P	46	AF	1.8*
SF.T145	CG	.55		0.5		45		30	1.0	250	DC			PG	80	AF	1.0*
SF.T146	CG	.55		0.5		45		60	1.0	250	DC			PG	80	AF	1.8*
SF.T162	CG	.24		.01		70		105	12	6.0	1.0			PG	43	RF	70
SF.T163	CG	.12		.01		15		120	12	5.0	1.0			PG	43	RF	250
SF.T171	CG	.01		.025		30								PG	7	RF	250
SF.T172	CG	.01		.025		30								PG	7	RF	250
SF.T173	CG	.01		.025		30								PG	7	RF	250
SF.T174	CG	.01		.025		30								PG	7	RF	250
SF.T184	CG	.15		0.1		10		110	6.0	1.0	1.0			PG	2	GP	6.0
SF.T186	CG	0.6		.03		120		30	10	30	DC			NS	2	RF	200
SF.T191	CG		30	1.0		30		70	2.0	1*	DC			PG	72	GP	0.2
SF.T212	CG		30	3.0		30		40	2.0	2*	DC			PG	72	AF	0.2*
2SF.T212	CG		30	3.0		30		40	2.0	2*	DC			PG	72	AF	0.2*
SF.T213	CG		45	3.0		40		40	2.0	2*	DC			PG	72	GP	
SF.T214	CG		45	3.0		60		40	2.0	2*	DC			PG	72	GP	0.2*
SF.T221	CG	.225		.25		30		30	1.0	100	DC			PG	2	AF	1.3*
SF.T222	CG	.225		.25		30		50	1.0	100	DC			PG	2	AF	2.0*
SF.T223	CG	.225		.25		30		80	1.0	100	DC			PG	2	AF	4.0*
SF.T226	CG	.15		.25		40		50	0.5	10	DC			PG	2	GP	5.5

TRANSISTOR obsolete*	MFG	MAXIMUM						GAIN				MAX	@				
		P_C (watts)		I_C amps	V_{CE}	V_{CB}	V_{EB}	typ h_{fe}	V_{CE}	I_C ma amp*	freq kc mc*	I_{CBO} μa ma*	V_{CE}	TYPE	BASE	USE	typ f_t $f_{\alpha b}$*
		T_A	T_C														
SF.T227	CG	.15		.25		30		60	0.5	10	DC			PG	2	GP	7.5
SF.T228	CG	.15		.25		24		90	0.5	10	DC			PG	2	GP	12
SF.T229	CG	.15		.25		18		145	0.5	10	DC			PG	2	RF	125
SF.T232	CG	.45		1.0		40		40	0.5	1*	DC			PG		AF	0.3*
SF.T233	CG	.45		1.0		60		40	0.5	1*	DC			PG		AF	0.3*
SF.T234	CG	.45		1.0		80		40	0.5	1*	DC			PG		AF	0.3*
SF.T237	CG	.15		0.1		15		100	6.0	1.0	1.0			PG	2	AF	5.0*
SF.T238	CG		45	6.0		40		30	2.0	5*	DC			PG	72	GP	0.3*
SF.T239	CG		45	6.0		60		30	2.0	5*	DC			PG	72	GP	0.3*
SF.T240	CG		45	6.0		80		30	2.0	5*	DC			PG	72	GP	0.3*
SF.T241	CG	.225		0.5		45		45	1.0	100	DC			PG	2	AF	1.6*
SF.T242	CG	.225		0.5		45		70	1.0	100	DC			PG	2	AF	25*
SF.T243	CG	.225		0.5		60		60	1.0	100	DC			PG	2	AF	2.0*
SF.T250	CG		45	3.0		80		40	2.0	2*	DC			PG	72	GP	0.2*
SF.T251	CG	.225		.15		30		30	6.0	1.0	1.0			PG	2	AF	1.3*
SF.T252	CG	.225		.15		30		50	6.0	1.0	1.0			PG	2	AF	2.0*
SF.T253	CG	.225		.15		30		80	6.0	1.0	1.0			PG	2	AF	3.0*
SF.T264	CG		70	15		30		45	2.0	2*	DC			PG	43	AF	0.2*
SF.T265	CG		70	15		40		45	2.0	5*	DC			PG	43	GP	0.2*
SF.T266	CG		70	15		60		45	2.0	5*	DC			PG	43	GP	0.2*
SF.T267	CG		70	15		80		45	2.0	5*	DC			PG	43	GP	0.2*
SF.T288	CG	.15		0.5		24		75	.35	40	DC			PG	2	GP	16*
SF.T298	CG	.15		0.5		30								NG	2	GP	15
SF.T306	CG	.15		0.1		18								PG	22	AF	3.0*
SF.T307	CG	.15		0.1		18								PG	22	AF	7.0*
SF.T308	CG	.15		0.1		18								PG	22	AF	13*
SF.T315	CG	.12		.12		40		80	9.0	1.0	1.0			PG	41	RF	30
SF.T316	CG	.12		.01		20								PG	43	AF	120
SF.T317	CG	.15		.01		20								PG	22	AF	40
SF.T319	CG	.15		.01		20								PG	22	AF	45
SF.T320	CG	.15		.01		20								PG	22	AF	70
SF.T321	CG	0.2		.25		24		30	1.0	100	DC			PG	22	AF	1.3*
SF.T322	CG	0.2		.25		24		50	1.0	100	DC			PG	22	AF	1.6*
SF.T323	CG	0.2		.25		24		85	1.0	100	DC			PG	22	AF	2.6*
SF.T337	CG	.15		0.1		15		100	6.0	10	1.0			PG	22	AF	5.0*
SF.T351	CG	0.2		.15		24		30	6.0	1.0	1.0			PG	22	AF	1.2*
SF.T352	CG	0.2		.15		24		30	6.0	1.0	1.0			PG	22	AF	1.6*
SF.T353	CG	0.2		.15		24		80	6.0	1.0	1.0			PG	22	AF	2.4*
SF.T354	CG	.12		.01		20								PG	22	AF	150
SF.T357	CG	.12		.01		20								PG	22	AF	170
SF.T357P	CG	.12		.12		30		180	9.0	1.0	1.0			PG	41	RF	80
SF.T358	CG	.12		.01		20								PG	22	AF	235
SP8400	FS	0.6	1.2		80	120	7.0	3.5	10	50	20*	.01	90	NS	2	RF	
SP8401	FS	0.6	1.2		60	100	7.0	4.0	10	50	20*	.025	75	NS	2	RF	80
SP8402	FS	0.6	1.2		60	100	7.0	3.5	10	50	20*	.025	75	NS	2	RF	80
ST9	TE	.15		.025	15	15	2.0	60	6.0	1.0	1.0	1.0	15	NS	2	GP	
ST10	TE	0.2		.025	15	15	2.0	16	6.0	1.0	1.0	0.5	15	NS	2	GP	
ST11	TE	0.2		.025	15	15	2.0	30	6.0	1.0	1.0	0.5	15	NS	2	GP	
ST12	TE	0.2		.025	15	15	2.0	60	6.0	1.0	1.0	0.5	15	NS	2	GP	
ST13	TE	0.2		.025	15	15	2.0	45	6.0	1.0	1.0	0.5	15	NS	2	GP	
ST14	TE	0.2		.025	15	15	2.0	15	6.0	1.0	1.0	0.5	15	NS	2	GP	
ST15	TE	0.2			15	15	2.0	50	6.0	1.0	1.0	.02	15	NS	2	GP	
ST29	TE	.15		.025	30	30	2.0	60	6.0	1.0	1.0	10	30	NS	2	GP	
ST30	TE	0.2		.025	30	30	2.0	16	6.0	1.0	1.0	0.5	30	NS	2	GP	
ST31	TE	0.2		.025	30	30	2.0	30	6.0	1.0	1.0	0.5	30	NS	2	GP	
ST32	TE	0.2		.025	30	30	2.0	60	6.0	1.0	1.0	0.5	30	NS	2	GP	
ST33	TE	0.2		.025	30	30	2.0	45	6.0	1.0	1.0	0.5	30	NS	2	GP	
ST34	TE	0.2		.025	30	30	2.0	15	6.0	1.0	1.0	0.5	30	NS	2	GP	
ST35	TE	0.2			30	30	2.0	50	6.0	1.0	1.0	.02	30	NS	2	GP	
ST40	TE	0.2		.025	45	45	2.0	16	6.0	1.0	1.0	0.5	45	NS	2	GP	
ST41	TE	0.2		.025	45	45	2.0	30	6.0	1.0	1.0	0.5	45	NS	2	GP	
ST42	TE	0.2		.025	45	45	2.0	60	6.0	1.0	1.0	0.5	45	NS	2	GP	
ST44	TE	0.2		.025	45	45	2.0	15	6.0	1.0	1.0	0.5	45	NS	2	GP	
ST45	TE	0.2			45	45	2.0	50	6.0	1.0	1.0	.02	45	NS	2	GP	
ST400	TE	3.5	82	2.0	60	60	10	45	12	2*	DC	10*	60	NS	77	GP	
ST401	TE	3.5	82	2.0	45	45	5.0	45	12	2*	DC	20*	45	NS	77	GP	
ST440	TE	3.5	60	2.0	60	60	5.0	25	15	1*	DC	20*	60	NS	77	GP	4.0*
ST450	TE	3.5	60	2.0	60	60	5.0	25	15	1*	DC	20*	60	NS	59	GP	4.0*
ST903	TE	.15				30	1.0	16	5.0	1.0	1.0	10	30	NS	67	GP	7.0*
ST904	TE	.15				30	1.0	31	5.0	1.0	1.0	10	30	NS	67	GP	9.0*
ST904A	TE	.15				30	1.0	60	5.0	1.0	1.0	10	30	NS	67	GP	11*
ST905	TE	.15				30	1.0	65	5.0	1.0	1.0	10	30	NS	67	GP	10*
ST910	TE	.15				30	1.0	140	5.0	1.0	1.0	10	30	NS	67	GP	20*
ST1026	TE	.03		.005	6.0	6.0	2.0					.005	6.0	NS	2	GP	
ST1050	TE	.03		.005	6.0	6.0	1.0					.01	6.0	NS	2	GP	

TRANSISTOR obsolete*	MFG	MAXIMUM						GAIN				MAX					typ
		P_C (watts)		I_C amps	V_{CE}	V_{CB}	V_{EB}	typ h_{fe}	V_{CE}	I_C ma amp*	freq kc mc*	I_{CBO} μa ma*	@ V_{CE}	TYPE	BASE	USE	f_t f_{α}*
		T_A	T_C														
ST1051	TE	.03		.005	6.0	6.0	1.0					.01	6.0	NS	2	GP	
ST1504	TE	0.3	0.5	0.1	60	60	3.0	40	10	1.0	1.0	1.0	60	NS	5	RF	
ST1505	TE	0.3	0.5	0.1	80	100	3.0	40	10	1.0	1.0	1.0	100	NS	5	RF	
ST3030	TE	0.1		.025	15	15	1.0					50	15	NS	2	SW	50
ST3031	TE	.15		.025	20	20	1.0	60	6.0	1.0	1.0	1.0	20	NS	2	RF	80
ST4150	TE	0.6	5.0		60	60	5.0	8.0	20	100	1*	15	60	NS	5	SW	
ST4201	TE	0.6	3.0	0.1	45	45	4.0	24	6.0	200	DC	100	45	NS	2	GP	
ST4202	TE	0.6	3.0		75	75	4.0	60	6.0	200	DC	100	75	NS	2	GP	
ST4203	TE	0.6	3.0		45	45	4.0	24	6.0	200	DC	100	45	NS	2	GP	
ST4202	TE	0.6	3.0		75	75	4.0	60	6.0	200	DC	100	75	NS	2	GP	
SYL1750	SY	.15		0.1	25	40		25	6.0	1.0	1.0			NG	4	GP	
SYL2120	SY	0.1		.05	15	15	3.5	40	0.3	1.0	DC	3.0	5.0	PG	5	SW	
SYL2189	SY	.15	0.3	.05	9.0	12	1.0	35	0.5	10	DC	3.0	5.0	PG	5	SW	
SYL2271	SY	.25		0.5				75	1.5	35	DC	50	20	PG	4	AF	15*
T34D	NU	.05		.012		30	30					15	4.5	P	6	GP	
T34E	NU	.05		.012		30	30					15	4.5	P	6	GP	
T34F	NU	.05		.012		30	30					15	4.5	P	6	GP	
T-0038	PH	.03		.005	6.0			400						P		AF	
T-0039	PH	.03		.005	6.0			150						P		AF	
T-0040	PH	.03		.005	6.0			70						P		AF	
T-0041	PH	.03		.005	6.0			40						P		AF	
T-0067	PH	.015		.02	12			200						P		AF	
T-1001	PH	0.1		.15	12			95						P		AF	
T-1010	PH	.009		.003	6.0			40						P		RF	
T-1011	PH	.009		.003	6.0			35						P		RF	
T-1012	PH	.009		.003	4.5			24						P		RF	
T-1033	PH	.009		.003	4.5			42						P		RF	
T-1034	PH	.009		.003	4.5			24						P		RF	
T-1035	PH	.009		.003	9.0			24						P		RF	
T-1036	PH	.009		.003	6.0			40						P		RF	
T-1037	PH	.009		.003	6.0			20						P		RF	
T-1042	PH	0.1		.15	25			55						P		AF	
T-1044	PH	.05		.15	12			78						P		AF	
T1045	PH	MATCHED PAIR OF L5024S.															
T-1046	PH	.15		.15	25			75						P		AF	
T1047	PH	MATCHED PAIR OF L5025.															
T-1166	PH	.05		.05	6.0	6.0		80				5.0	5.0	P	19	SW	
T-1232	PH	.009		.003	4.5			17						P		RF	
T-1233	PH	.009		.003	4.5			30						P		RF	
T-1300	PH	.009		.003	4.5			42						P		RF	
T-1305	PH	.006		.002	4.0			25						P		RF	
T-1306	PH	.006		.002	3.0			20						P		RF	
T-1459	PH	.006						60						P		RF	
T-1460	PH							150						P		RF	
T-1461	PH	.01		.05	6.0			220						P		RF	
T-1502	PH	.009		.003	4.5			35						P		RF	
T-1503	PH	.009		.003	6.0			35						P		RF	
T-1504	PH	.03		.05	20			80						P		RF	
T-1505	PH	0.2		.06	15			140						P		AF	
T-1542	PH	0.3		.05	15			40						P		RF	
T1549	PH	MATCHED PAIR OF T1002S.															
T-1559	PH	.03		.05	20									P		RF	
T-1561	PH	.03			15									P		RF	
T-1593	PH	.02		.05	25			150						P		RF	
T-1594	PH	.035		.01	30			150						P		RF	
T-1595	PH	.015		.01	15			200						P		RF	
T-1596	PH	.025		.05	14			300						P		RF	
T-1597	PH	.03			15									P		RF	
T-1598	PH	.025		.05	6.0			200						P		RF	
T-1599	PH	.015		.05	14			40						P		GP	
T-1600	PH	.03			15									P		RF	
T-1601	PH	0.4		0.5	25			100						P		GP	
T-1602	PH			2.0	55			50						P		GP	
T-1605	PH	0.1			45			100						P		GP	
T1624	PH	MATCHED PAIR OF T1005S.															
T-1731	PH	.03		.05	15			60						P		GP	
T-1732	PH	.03		.05	15			60						P		GP	
T-1872	PH	.25		0.4		30	20					5.0	1.5	PG	15	GP	
T-1877	PH	.01		.05	6.0			190						PG		RF	
T-2028	PH	.06				20	0.5					10	10	PG	15	RF	
T-2029	PH	.06				20	0.5					10	10	PG	15	RF	
T-2030	PH	.06				20	0.2					10	10	PG	15	RF	
T-2038	PH	.05		.05	8.0	15	2.0					3.0	5.0	PG	2	SW	400
T-2039	PH	.05		.05	8.0	15	2.0					3.0	5.0	PG	2	SW	400
T-2040	PH	.05		.05	8.0	15	2.0					3.0	5.0	PG	2	SW	400

TRANSISTOR obsolete*	MFG	MAXIMUM						GAIN				MAX	@					typ
		P_C (watts)		I_C	V_{CE}	V_{CB}	V_{EB}	typ	V_{CE}	I_C	freq	I_{CBO}	V_{CE}	TYPE	BASE	USE	f_t
		T_A	T_C	amps				h_{fe}		ma amp*	kc mc*	μa ma*					$f_{\alpha b}$*
T-2091	PH	.01		.05	6.0			420						PG		RF	
T-2092	PH	0.2		0.5		30	3.5					10	5.0	PG	15	SW	220
T-2122	PH	.035		0.1	7.0	12	2.0					3.0	5.0	PG	2	SW	750
T-2357	PH	.15		.05	30	30	30					.01	30	PS	2	GP	12
TA6200	FS	1.0	4.0			60	5.0	80	5.0	500	DC	10	30	NS		RF	60
TF49	SG	.075		0.3	10	15	5.0	80	5.0	1.0	1.0	2.5	5.0	PG	14	GP	
TF78/30	SG	.04	2.7	.06	24	32	10	30	0.7	500	DC	10	32	PG	14	GP	
TF78/60	SG	.04	2.7	.06	45	64	14	30	0.7	500	DC	10	32	PG	14	GP	
TI363	TI	0.1		.02	30	30	2.0	35	6.0	0.5	455	100	30	PG	2	RF	500
TI364	TI	0.1		.02	30	30	2.0	32	6.0	0.5	455	100	30	PG	2	RF	500
TI480	TI	0.6		.06	40	50	1.0	24	10	5.0	1.0	2.0	30	NS	2	GP	
TI481	TI	0.6		.06	70	80	1.0	24	10	5.0	1.0	2.0	30	NS	2	GP	
TI482	TI	0.6	2.0		20	20	5.0	5.0	10	50	20*	2.0	10	NS	5	GP	80
TI483	TI	0.6	2.0		20	40	5.0	5.0	10	50	20*	2.0	30	NS	5	GP	80
TI484	TI	0.6	2.0		20	40	5.0	5.0	10	50	20*	2.0	30	NS	5	GP	80
TI485	TI	0.3	1.0		14	20	3.0	3.0	10	10	100*	1.0	15	NS	5	SW	200
TI486	TI	0.8	15	.75	60	80	6.0	2.0	10	100	10*	3.0	60	NS	5	GP	20
TI487	TI	2.0	15	.75	60	80	6.0	2.0	10	100	10*	3.0	60	NS	5	GP	20
TI490	TI	0.3	1.0	0.5	45	45	5.0	2.8	5.0	0.5	30*	.01	40	NS	5	RF	90
TI492	TI	.15		.025	20	40	1.0	30	5.0	1.0	1.0	2.0	30	NS	2	GP	7.0
TI493	TI	.125		.02	20	40	1.0	30	5.0	10	DC	2.0	20	NS	2	GP	
TI494	TI	.125		.02	20	40	1.0	70	5.0	10	DC	2.0	20	NS	2	GP	
TI495	TI	.125		.02	20	40	1.0	170	5.0	10	DC	2.0	20	NS	2	GP	
TI496	TI	0.6		.06		70						2.0	50	NS	2	SP	
TIX316	TI	.075		.05	10	15	0.3	200	6.0	4.0	1.0	5.0	10	PG	7	RF	
TS176*	TS		10	2.0	30			50	12	500		1*	25	PG	72	AF	
TS601*	TS	0.2		0.4	6.0	12	5.0					20	9.0	PG	4	GP	
TS602*	TS	0.2		0.4	6.0	12	5.0					20	9.0	PG	4	GP	
TS603*	TS	0.2		0.4	15	20	5.0					20	9.0	PG	4	GP	
TS604*	TS	0.2		0.4	15	20	5.0				20	20	9.0	PG	4	GP	
TS605*	TS	.18		15	60	90						10	50	PG		RF	
TS606*	TS	.18		15	12	20						10	50	PG		RF	
TS609*	TS		170	15		25						8*	25	PG	43	GP	
TS610*	TS	110		5.0								5*	25	PG	72	GP	
TS612*	TS		15	3.0	20							300	25	PG	72	GP	
TS613*	TS		15	3.0	40							300	25	PG	72	GP	
TS614*	TS		15	3.0	30							300	25	PG	72	GP	
TS616*	TS	.15		0.2	25			32	1.0	20		20	25	PG	2	AF	
TS617*	TS	.15		0.2	25			52	1.0	20		20	25	PG	48	AF	
TS618*	TS	.15		0.2	25			72	1.0	20		20	25	PG	2	AF	
TS619*	TS	0.1		.05	25			50	6.0	1.0		15	25	PG	67	AF	
TV-1	PH	.05		.035		20								P		RF	
TV44	SG			.02		40	0.3	10	12	2.0	DC			PG	97	GP	
U15A	SJ	16	80	20	75	100	40	40	1.5	15*	DC	5*	100	PG	72	AF	.08
U15B	SJ	16	80	30	75	100	40	100	1.5	15*	DC	5*	100	PG	72	AF	.08
WX118UA*	WS		150	10			15	360	6.0	10*				NS	58	GP	
WX118UB*	WS		150	10			15	360	6.0	10*				NS	58	GP	
WX118UC*	WS		150	10			15	360	6.0	10*				NS	58	GP	
WX118XA*	WS		150	10			15	660	6.0	10*				NS	59	GP	
WX118XB*	WS		150	10			15	660	6.0	10*				NS	58	GP	
WX118XC*	WS		150	10			15	660	6.0	10*				NS	58	GP	
WX1015*	WS			5.0			25	20	2.0	2*	DC			NS	54	GP	
WX1015A*	WS			5.0			25	20	2.0	2*	DC			NS	54	GP	
WX1015B*	WS			5.0			25	20	2.0	2*	DC			NS	54	GP	
WX1015C*	WS			5.0			25	20	2.0	2*	DC			NS	54	GP	
WX1015D*	WS			5.0			25	20	2.0	2*	DC			NS	54	GP	
WX1015E*	WS			5.0			25	20	2.0	2*	DC			NS	54	GP	
WX1015F*	WS			5.0			25	20	2.0	2*	DC			NS	54	GP	
WX1016*	WS			5.0			25	10	2.0	5*	DC			NS	54	GP	
WX1016A*	WS			5.0			25	10	2.0	5*	DC			NS	54	GP	
WX1016B*	WS			5.0			25	10	2.0	5*	DC			NS	54	GP	
WX1016C*	WS			5.0			25	10	2.0	5*	DC			NS	54	GP	
WX1016D*	WS			5.0			25	10	2.0	5*	DC			NS	54	GP	
WX1016E*	WS			5.0			25	10	2.0	5*	DC			NS	54	GP	
WX1016F*	WS			5.0			25	10	2.0	5*	DC			NS	54	GP	
X-78	CV	2.0		0.1		45								PG	88	AF	
XH10	MH		25	10		60	30	40	2.0	1*	DC	7*	60	P	49	GP	
XT1A	LU	0.6	4.0	0.3	135	200	5.0	24	6.0	200	DC	50	200	NS	5	GP	
XT1B	LU	0.6	4.0	0.3	200	300	5.0	24	6.0	200	DC	50	300	NS	5	GP	
XT1C	LU	0.6	4.0	0.3	265	400	5.0	24	6.0	200	DC	50	400	NS	5	GP	
XT1D	LU	0.6	4.0	0.3	350	500	5.0	24	6.0	200	DC	50	500	NS	5	GP	
XT2A	LU		50	5.0	135	200	5.0	30	5.0	5*	DC	10*	200	NS	43	GP	
XT2B	LU		50	5.0	200	300	5.0	30	5.0	5*	DC	10*	300	NS	43	GP	
XT2C	LU		50	5.0	265	400	5.0	30	5.0	5*	DC	10*	500	NS	43	GP	
XT2D	LU		50	5.0	350	500	5.0	30	5.0	5*	DC	10*	500	NS	43	GP	

TRANSISTOR obsolete*	MFG	MAXIMUM P_C (watts) T_A	MAXIMUM P_C (watts) T_C	MAXIMUM I_C amps	MAXIMUM V_{CE}	MAXIMUM V_{CB}	MAXIMUM V_{EB}	GAIN typ h_{fe}	GAIN V_{CE}	GAIN I_C ma amp*	GAIN freq kc mc*	MAX I_{CBO} μa ma*	@ V_{CE}	TYPE	BASE	USE	typ f_t $f_{\alpha b}$*
ZT20	FE	.35		.05	20	20	6.0	35	6.0	1.0	1.0	0.5	20	NS	5	RF	110
ZT21	FE	.35		.05	20	20	6.0	50	6.0	1.0	1.0	0.5	20	NS	5	RF	110
ZT22	FE	.35		.05	45	45	6.0	30	6.0	1.0	1.0	0.5	45	NS	5	RF	110
ZT23	FE	.35		.05	45	45	6.0	50	6.0	1.0	1.0	0.5	45	NS	5	RF	110
ZT24	FE	.35		.05	45	45	6.0	65	6.0	1.0	1.0	0.5	45	NS	5	RF	110
ZT40	FE	0.3		.05	20	20	6.0	35	6.0	1.0	1.0	0.5	20	NS	5	RF	110
ZT41	FE	0.3		.05	20	20	6.0	50	6.0	1.0	1.0	0.5	20	NS	5	RF	110
ZT42	FE	0.3		.05	45	45	6.0	30	6.0	1.0	1.0	0.5	45	NS	5	RF	110
ZT43	FE	0.3		.05	45	45	6.0	50	6.0	1.0	1.0	0.5	45	NS	5	RF	110
ZT44	FE	0.3		.05	45	45	6.0	90	6.0	1.0	1.0	0.5	45	NS	5	RF	110
ZT50	FE		5.0		20	20	6.0	55		100	DC	.05	10	NS	15	RF	320
ZT83	FE	0.3		.25	45	60	5.0	55	6.0	10	DC	.05	20	NS	5	RF	220
ZT84	FE	0.3		.25	45	60	5.0	125	6.0	10	DC	.05	20	NS	5	RF	220
ZT86	FE	0.3		.25	80	100	5.0	55	6.0	10	DC	.05	20	NS	5	RF	220
ZT91	FE	1.0	5.0	1.0	100	120	8.0	80	10	200	DC	1.0	120	NS	5	RF	110
ZT92	FE	1.0	5.0	1.0	100	120	8.0	130	10	200	DC	1.0	120	NS	5	RF	110
ZT202	FE	0.3		.05	20	30	5.0	30	6.0	1.0	1.0	1.0	30	NS	5	RF	200
ZT203	FE	0.3		.05	20	30	5.0	50	5.0	1.0	1.0	1.0	30	NS	5	RF	200
ZT204	FE	0.3		.05	20	30	5.0	100	6.0	1.0	1.0	1.0	30	NS	5	RF	200
ZT402	FE	0.3		.05	20	30	5.0	30	6.0	1.0	1.0	1.0	30	NS	5	RF	200
ZT403	FE	0.3		.05	20	30	5.0	50	6.0	1.0	1.0	1.0	30	NS	5	RF	200
ZT404	FE	0.3		.05	20	30	5.0	100	6.0	1.0	1.0	1.0	30	NS	5	RF	200
ZT696	FE	0.6		0.5	40	60	5.0	40	10	150	DC	1.0	30	NS	5	RF	80
ZT697	FE	0.6		0.5	40	60	5.0	75	10	150	DC	1.0	30	NS	5	RF	100
ZT706	FE	0.3			20	25	3.0	50	1.0	10	DC	0.5	15	NS	5	RF	350
ZT708	FE	.36			15	40	5.0	75	1.0	10	DC	.025	20	NS	5	RF	500
ZT709	FE	0.3	0.5		6.0	15	4.0	50	0.5	10	DC	.05	5.0	NS	5	SW	800
ZT1479	FE		5.0	1.5	40	60	12	40	4.0	200	DC	10	30	NS	5	GP	1.2*
ZT1480	FE		5.0	1.5	40	60	12	40	4.0	20	DC	10	30	NS	5	GP	1.2*
ZT1481	FE		5.0	1.5	40	60	12	65	4.0	20	DC	10	30	NS	5	GP	1.2*
ZT1482	FE		5.0	1.5	40	60	12	65	4.0	20	DC	10	30	NS	5	GP	1.2*
ZT1483	FE		25	3.0	40	60	12	40	5.0	750	DC	15	30	NS	15	GP	
ZT1484	FE		25	3.0	55	100	12	40	4.0	750	DC	15	30	NS	15	GP	
ZT1485	FE		25	3.0	40	60	12	70	4.0	750	DC	15	30	NS	15	GP	
ZT1486	FE		25	3.0	55	100	12	70	4.0	750	DC	15	30	NS	15	GP	
ZT1487	FE		75	6.0	40	60	10	30	4.0	1.5*	DC	25	30	NS	72	GP	1.0*
ZT1488	FE		75	6.0	55	100	10	30	4.0	1.5*	DC	25	30	NS	72	GP	1.0*
ZT1489	FE		75	6.0	40	60	10	50	4.0	1.5*	DC	25	30	NS	72	GP	1.0*
ZT1490	FE		75	6.0	55	100	10	50	4.0	1.5*	DC	25	30	NS	72	GP	1.0*
ZT1511	FE		75	6.0	40	60	10	30	4.0	1.5*	DC	25	30	NS	43	GP	1.0*
ZT1512	FE		75	6.0	55	100	10	30	4.0	1.5*	DC	25	30	NS	43	GP	1.0*
ZT1513	FE		75	6.0	40	60	10	50	4.0	1.5*	DC	25	30	NS	43	GP	1.0*
ZT1514	FE		75	6.0	55	100	10	50	4.0	1.5*	DC	25	30	NS	43	GP	1.0*
ZT1613	FE	0.8	3.0	1.0	50	75	7.0	80	10	150	DC	.01	60	NS	5	RF	120
ZT1700	FE		5.0	1.0	40	60	6.0	50	4.0	100	DC	75	30	NS	6	GP	1.2*
ZT1708	FE	0.3		0.2	20	25	3.0	50	1.0	10	DC	.025	15	NS	5	SW	400
ZT1711	FE	0.8	3.0		50	75	7.0	120	10	10	DC	.01	60	NS	5	RF	140
ZT2205	FE	0.3		0.2	20	25	3.0	50	1.0	10	DC	.025	15	NS	5	SW	400
ZT2206	FE	0.3		0.2	20	25	3.0	80	1.0	10	DC	.025	15	NS	5	SW	400
ZT2270	FE	1.0	5.0	1.0	45	60	7.0	125	10	150	DC	0.1	60	NS	5	GP	120
ZT2475	FE	0.3	0.5		6.0	15	4.0	50	0.4	20	DC	.05	5.0	NS	5	SW	800
ZT2476	FE	0.6	2.0		20	60	5.0	50	0.4	150	DC	0.2	30	NS	5	SW	400
ZT2477	FE	0.6	2.0		20	60	5.0	75	0.4	150	DC	0.2	30	NS	5	SW	400
ZT2708	FE	0.2			20	35	3.0	100	15	2.0	1.0	.01	15	NS	5	SW	900

MAXIMUM P_C		MAXIMUM P_C		MAXIMUM P_C		MAXIMUM P_C		MAXIMUM P_C	
T_A	TRANSISTOR	T_A	TRANSISTOR	T_A	TRANSISTOR	T_A	TRANSISTOR	T_A	TRANSISTOR
.006	T-1305	.025	2N393	.04	2SB91	.05	TV-1	.06	2N2488
.006	T-1306	.025	2N501A	.04	2SB97	.054	ES3110	.06	2N2489
.006	T-1459	.025	2N503	.04	2SB321	.054	ES3111	.06	2SA49
.009	2N232	.025	2N1122	.04	2SB322	.054	ES3112	.06	2SA51
.009	L5113L	.025	2N1122	.04	2SB323	.054	ES3113	.06	2SA52
.009	L5114A	.025	2N1122A	.04	TF78/30	.054	ES3114	.06	2SA53
.009	L5123	.025	2N1122A	.04	TF78/60	.054	ES3115	.06	2SB257
.009	L5125	.025	2N1411	.045	2N1785	.054	ES3116	.06	AF124
.009	L5126	.025	2N1427	.045	2N1786	.055	2N591/5	.06	AF124
.009	S3126	.025	2N2451	.045	2N1787	.055	2SA28	.06	AF125
.009	S3151	.025	2SA37	.045	AFY12	.055	2SA50	.06	AF125
.009	S3176	.025	2SA38	.05	2N34	.055	2SA57	.06	AF126
.009	T-1010	.025	2SA39	.05	2N35	.055	2SA58	.06	AF126
.009	T-1011	.025	OC65	.05	2N41	.055	2SA60	.06	AF127
.009	T-1012	.025	OC66	.05	2N107	.055	2SA72	.06	AF127
.009	T-1033	.025	RD-525A	.05	2N175	.055	2SA73	.06	OC139
.009	T-1034	.025	T-1596	.05	2N207	.055	2SA76	.06	OC140
.009	T-1035	.025	T-1598	.05	2N207A	.055	2SA77	.06	OC141
.009	T-1036	.03	2N33	.05	2N207B	.055	2SA92	.06	T-2028
.009	T-1037	.03	2N129	.05	2N318	.055	2SA93	.06	T-2029
.009	T-1232	.03	2N240	.05	2N398	.055	2SA175	.06	T-2030
.009	T-1233	.03	2N252	.05	2N481	.055	2SA236	.065	2N78
.009	T-1300	.03	2N310	.05	2N482	.055	2SA237	.065	2N78A
.009	T-1502	.03	2N499	.05	2N483	.055	2SA254	.065	2N167
.009	T-1503	.03	2N504	.05	2N484	.055	2SA255	.065	2N167A
.01	OC54	.03	2N588	.05	2N485	.055	2SA256	.065	2N168A
.01	OC55	.03	2N1247	.05	2N486	.055	2SA257	.065	2N169
.01	OC56	.03	2N1247	.05	2N500	.055	2SA258	.065	2N253
.01	OC57	.03	2N1248	.05	2N534	.055	2SA259	.065	2N254
.01	OC57	.03	2N1248	.05	2N535	.055	2SC11	.065	2N292
.01	OC58	.03	2N2256	.05	2N535A	.055	2SC28	.065	2N293
.01	OC58	.03	2N2257	.05	2N535B	.06	2N499A	.065	2N448
.01	OC59	.03	2SC73	.05	2N536	.06	2N501	.065	2N449
.01	OC59	.03	2SC75	.05	2N591	.06	2N501A	.065	2N1086
.01	OC60	.03	2SC76	.05	2N1034	.06	2N502	.065	2N1086A
.01	OC60	.03	2SC78	.05	2N1035	.06	2N779A	.065	2N1087
.01	SF.T171	.03	2SC677	.05	2N1036	.06	2N846A	.065	2N1121
.01	SF.T172	.03	2T73	.05	2N1037	.06	2N979	.065	2SA277
.01	SF.T173	.03	2T75	.05	2N1754	.06	2N980	.065	2SA278
.01	SF.T174	.03	2T76	.05	2S306	.06	2N982	.065	2SA304
.01	T-1461	.03	2T77	.05	2S307	.06	2N983	.065	2SA305
.01	T-1877	.03	2T78	.05	2S326	.06	2N984	.065	2SB261
.01	T-2091	.03	BFY22	.05	2S327	.06	2N987	.065	2SB262
.015	2N1750	.03	BFY23	.05	2SA150	.06	2N1158	.065	2SB290
.015	2SA121	.03	BFY24	.05	2SB39	.06	2N1499A	.065	2SC13
.015	2SA122	.03	BFY29	.05	2SB68	.06	2N1500	.065	2SC14
.015	2SA123	.03	BFY30	.05	2SB121	.06	2N1726	.065	DS-11
.015	2SA124	.03	R186	.05	2SD64	.06	2N1727	.065	DS-12
.015	2T201	.03	ST1026	.05	2T64	.06	2N1728	.067	2N990
.015	2T203	.03	ST1050	.05	AF106	.06	2N1742	.067	2N991
.015	T-0067	.03	ST1051	.05	AF114	.06	2N1743	.067	2N992
.015	T-1595	.03	T-0038	.05	AF115	.06	2N1744	.067	2N993
.015	T-1599	.03	T-0039	.05	AF116	.06	2N1745	.07	2N36
.02	2N176	.03	T-0040	.05	AF117	.06	2N1746	.07	2N37
.02	2N220	.03	T-0041	.05	ASZ30	.06	2N1748	.07	2N38
.02	2N299	.03	T-1504	.05	DS-1	.06	2N1748A	.07	RR14
.02	2N300	.03	T-1559	.05	DS-3	.06	2N1747	.07	RR14Y.D
.02	2N344	.03	T-1561	.05	DS-4	.06	2N1752	.07	RR20
.02	2N345	.03	T-1597	.05	DS-5	.06	2N1788	.07	RR20Y.D
.02	2N346	.03	T-1600	.05	DS-9	.06	2N1789	.07	RR21
.02	2N1010	.03	T-1731	.05	GT-66	.06	2N1790	.07	RR34
.02	2N2042	.03	T-1732	.05	L5024A	.06	2N1864	.07	RR34Y.D
.02	2N2043	.033	AF109	.05	OC41	.06	2N1865	.07	RR38
.02	2SB73	.035	2N79	.05	OC43	.06	2N1866	.071	OC44
.02	2SB302	.035	2N105	.05	RD-2517A	.06	2N1867	.071	OC45
.02	SB100	.035	2N139	.05	RD-2520A	.06	2N1868	.072	ES3120
.02	SB101	.035	2N218	.05	RD-2521A	.06	2N2168	.072	ES3121
.02	SB102	.035	2N247	.05	T34D	.06	2N2169	.072	ES3122
.02	SB103	.035	2N768	.05	T34E	.06	2N2170	.072	ES3123
.02	SB200	.035	2N769	.05	T34F	.06	2N2360	.072	ES3124
.02	T-1593	.035	AF139	.05	T-1044	.06	2N2361	.072	ES3125
.025	2N77	.035	AFY16	.05	T-1166	.06	2N2362	.072	ES3126
.025	2N128	.035	T-1594	.05	T-2038	.06	2N2398	.075	2N206
.025	2N170	.035	T-2122	.05	T-2039	.06	2N2399	.075	2N265
.025	2N393	.04	2SB90	.05	T-2040	.06	2N2487	.075	2N331M

.075 .12

MAXIMUM P_C		MAXIMUM P_C		MAXIMUM P_C		MAXIMUM P_C		MAXIMUM P_C	
T_A	TRANSISTOR	T_A	TRANSISTOR	T_A	TRANSISTOR	T_A	TRANSISTOR	T_A	TRANSISTOR
.075	2N502A	.08	2N1633	.08	AF114	0.1	2N315	0.1	ACY32
.075	2N695	.08	2N1634	.08	AF115	0.1	2N316	0.1	AF121
.075	2N700	.08	2N1635	.08	AF116	0.1	2N317	0.1	ASY67
.075	2N700A	.08	2N1636	.08	AF117	0.1	2N356	0.1	ASZ21
.075	2N700A SIG.C	.08	2N1637	.08	DS-19	0.1	2N357	0.1	BCY30
.075	2N1198	.08	2N1638	.08	DS-21	0.1	2N357	0.1	BCY31
.075	2N1213	.08	2N1639	.08	DS-22	0.1	2N358	0.1	BCY32
.075	2N1214	.08	2N1673	.08	DS-25	0.1	2N519	0.1	BCY33
.075	2N1215	.08	2SA12	.08	DS-34	0.1	2N556	0.1	BCY34
.075	2N1216	.08	2SA15	.08	DS-41	0.1	2N557	0.1	CK754
.075	2N1217	.08	2SA17	.08	GET880	0.1	2N558	0.1	FSP-164
.075	2N1405	.08	2SA18	.08	GET881	0.1	2N624	0.1	FSP-215
.075	2N1406	.08	2SA30	.08	GET882	0.1	2N647	0.1	GT-35
.075	2N1407	.08	2SA31	.08	GET885	0.1	2N649	0.1	GT40
.075	2N1499B	.08	2SA35	.08	GET887	0.1	2N907	0.1	GT41
.075	2N1510	.08	2SA36	.08	GET888	0.1	2N976	0.1	GT42
.075	2N1694	.08	2SA40	.08	GET889	0.1	2N1429	0.1	GT43
.075	2N1749	.08	2SA40	.08	GET890	0.1	2N1432	0.1	GT44
.075	2N2363	.08	2SA43	.082	OC170	0.1	2N1517A	0.1	GT45
.075	2N2415	.08	2SA64	.082	OC171	0.1	2N1613	0.1	GT46
.075	2N2416	.08	2SA80	.083	2N1515	0.1	2N1676	0.1	GT47
.075	2N2795	.08	2SA105	.083	2N1516	0.1	2N1677	0.1	GT-123
.075	2N2796	.08	2SA106	.083	2N1517	0.1	2N1684	0.1	GT-153
.075	2N2797	.08	2SA107	.083	AFZ12	0.1	2N1699	0.1	GT-167
.075	2N2798	.08	2SA108	.083	OC44	0.1	2N1711	0.1	GT-229
.075	2N2799	.08	2SA109	.083	OC45	0.1	2N1781	0.1	GT-269
.075	2N2996	.08	2SA110	.083	OC46	0.1	2N1893	0.1	GT-758
.075	2N2997	.08	2SA111	.083	OC169	0.1	2N2084 JAN	0.1	GT-759
.075	2N2998	.08	2SA112	.083	OC170	0.1	2N2092	0.1	GT-760
.075	2N2999	.08	2SA113	.083	OC171	0.1	2N2093	0.1	GT-761
.075	2SA229	.08	2SA114	.083	PADT28	0.1	2N2175	0.1	GT-762
.075	2SA230	.08	2SA115	.083	PADT30	0.1	2N2176	0.1	GT-763
.075	2SA239	.08	2SA116	.085	AFZ11	0.1	2N2177	0.1	GT-764
.075	2SA240	.08	2SA117	.086	2N987	0.1	2N2178	0.1	GT-792
.075	2SA276	.08	2SA118	.09	GT-14H	0.1	2N2273	0.1	GT-903
.075	2SB306	.08	2SA136	.09	GT-20H	0.1	2N2494	0.1	GT-904
.075	GET871	.08	2SA137	.09	GT-81H	0.1	2N2495	0.1	GT-905
.075	GET872	.08	2SA233	.09	GT-210H	0.1	2N2654	0.1	GT-947
.075	GET873	.08	2SA234	.09	GT-759R	0.1	2N2671	0.1	GT-948
.075	GET874	.08	2SA235	.09	GT-760R	0.1	2N2672	0.1	GT-949
.075	GET875	.08	2SA266	.09	GT-761R	0.1	2S701	0.1	L5022A
.075	OC73	.08	2SA267	.09	GT-762R	0.1	2S702	0.1	MF1164
.075	TF49	.08	2SA268	.094	PADT40	0.1	2S703	0.1	MM1151
.075	TIX316	.08	2SA269	0.1	2B	0.1	2S741	0.1	MM1152
.08	2N140	.08	2SA270	0.1	2C	0.1	2S742	0.1	MM1153
.08	2N219	.08	2SA271	0.1	2D	0.1	2S743	0.1	MM1154
.08	2N370	.08	2SA272	0.1	2E	0.1	2S744	0.1	OC53
.08	2N370/33	.08	2SA273	0.1	2F	0.1	2S745	0.1	OC139
.08	2N371	.08	2SA274	0.1	2G	0.1	2S746	0.1	OC140
.08	2N371/33	.08	2SA275	0.1	2G101	0.1	2SA246	0.1	OC141
.08	2N372	.08	2SA288	0.1	2G102	0.1	2SA247	0.1	OC200
.08	2N372/33	.08	2SA289	0.1	2G413	0.1	2SD61	0.1	OC201
.08	2N373	.08	2SA290	0.1	2G414	0.1	2SD62	0.1	OC202
.08	2N374	.08	2SB44	0.1	2G415	0.1	2SD63	0.1	OC203
.08	2N409	.08	2SB46	0.1	2G416	0.1	2T69	0.1	PADT51
.08	2N410	.08	2SB47	0.1	2G417	0.1	2T681	0.1	ST3030
.08	2N411	.08	2SB54	0.1	2N52	0.1	2T682	0.1	SYL2120
.08	2N412	.08	2SD44	0.1	2N63	0.1	10B551	0.1	T-1001
.08	2N544	.08	2SD65	0.1	2N64	0.1	10B553	0.1	T-1042
.08	2N544/33	.08	2SD66	0.1	2N65	0.1	10B556	0.1	T-1605
.08	2N640	.08	2T65	0.1	2N106	0.1	10C573	0.1	TI363
.08	2N641	.08	2T66	0.1	2N111A	0.1	10C574	0.1	TI364
.08	2N642	.08	154T1	0.1	2N112A	0.1	11B551	.11	2SC170
.08	2N1177	.08	155T1	0.1	2N123/5	0.1	11B552	.11	2SD43
.08	2N1178	.08	156T1	0.1	2N130A	0.1	11B554	.115	2N2873
.08	2N1179	.08	159T1	0.1	2N131A	0.1	11B555	.12	2A
.08	2N1180	.08	160T1	0.1	2N132A	0.1	11B556	.12	2N44A
.08	2N1425	.08	161T1	0.1	2N133A	0.1	11B560	.12	2N217A
.08	2N1426	.08	162T1	0.1	2N135	0.1	11C551	.12	2N247/33
.08	2N1524	.08	501T1	0.1	2N136	0.1	11C553	.12	2N274
.08	2N1525	.08	503T1	0.1	2N137	0.1	11C557	.12	2N384
.08	2N1526	.08	504T1	0.1	2N227	0.1	AC151	.12	2N384/33
.08	2N1527	.08	505T1	0.1	2N241	0.1	AC162	.12	2N404
.08	2N1631	.08	157T1	0.1	2N311	0.1	AC163	.12	2N464
.08	2N1632	.08	508T1	0.1	2N312	0.1	ACY23	.12	2N465

MAXIMUM P_C		MAXIMUM P_C		MAXIMUM P_C		MAXIMUM P_C		MAXIMUM P_C	
T_A	TRANSISTOR	T_A	TRANSISTOR	T_A	TRANSISTOR	T_A	TRANSISTOR	T_A	TRANSISTOR
.12	2N466	.125	2N280	.14	2T311	.15	2N404A	.15	2N710
.12	2N467	.125	2N337	.14	2T312	.15	2N404 USAF	.15	2N711
.12	2N578	.125	2N337	.14	2T313	.15	2N405	.15	2N711A
.12	2N579	.125	2N338	.14	2T314	.15	2N406	.15	2N711A
.12	2N580	.125	2N338	.14	2T315	.15	2N407	.15	2N711B
.12	2N582	.125	2N2084	.15	2G401	.15	2N408	.15	2N741
.12	2N583	.125	2N2188	.15	2G402	.15	2N413	.15	2N741A
.12	2N584	.125	2N2189	.15	2G403	.15	2N413A	.15	2N781
.12	2N585	.125	2N2190	.15	2N43A	.15	2N414	.15	2N782
.12	2N602	.125	2N2191	.15	2N44	.15	2N414A	.15	2N794
.12	2N603	.125	2S005	.15	2N45	.15	2N416	.15	2N795
.12	2N604	.125	2S014	.15	2N94	.15	2N416	.15	2N796
.12	2N605	.125	2SA78	.15	2N94A	.15	2N417	.15	2N797
.12	2N606	.125	2SA248	.15	2N104	.15	2N417	.15	2N827
.12	2N607	.125	2SC157	.15	2N106	.15	2N422	.15	2N828
.12	2N608	.125	2SC158	.15	2N109	.15	2N425	.15	2N828
.12	2N643	.125	2SC159	.15	2N117	.15	2N426	.15	2N829
.12	2N644	.125	2SC160	.15	2N117	.15	2N427	.15	2N838
.12	2N644	.125	3N34	.15	2N118	.15	2N428	.15	2N858
.12	2N645	.125	3N35	.15	2N118	.15	2N428	.15	2N859
.12	2N645	.125	4D24	.15	2N118A	.15	2N428 JAN	.15	2N860
.12	2N1023	.125	4D25	.15	2N119	.15	2N438	.15	2N861
.12	2N1065	.125	4D26	.15	2N119	.15	2N438	.15	2N862
.12	2N1066	.125	ASY26	.15	2N120	.15	2N439	.15	2N863
.12	2N1090	.125	ASY27	.15	2N120	.15	2N440	.15	2N864
.12	2N1091	.125	ASY28	.15	2N123	.15	2N440	.15	2N923
.12	2N1091	.125	ASY29	.15	2N123A	.15	2N444A	.15	2N924
.12	2N1170	.125	FSP-165	.15	2N193	.15	2N445A	.15	2N925
.12	2N1224	.125	FSP-242-1	.15	2N194A	.15	2N446A	.15	2N926
.12	2N1224 USA	.125	FSP-270-1	.15	2N212	.15	2N447A	.15	2N927
.12	2N1225	.125	FSP-289-1	.15	2N215	.15	2N450	.15	2N928
.12	2N1225 USA	.125	GT-14	.15	2N217	.15	2N462	.15	2N955
.12	2N1226	.125	GT-20	.15	2N233	.15	2N464	.15	2N955A
.12	2N1310	.125	GT-34	.15	2N233A	.15	2N465	.15	2N960
.12	2N1311	.125	GT-34N	.15	2N271	.15	2N465	.15	2N961
.12	2N1312	.125	GT-34S	.15	2N272	.15	2N465 USA	.15	2N961
.12	2N1319	.125	GT-74	.15	2N273	.15	2N466	.15	2N962
.12	2N1395	.125	GT-75	.15	2N315A	.15	2N466 JAN	.15	2N962
.12	2N1396	.125	GT-81	.15	2N316A	.15	2N467	.15	2N963
.12	2N1396	.125	GT-82	.15	2N317A	.15	2N467 USA	.15	2N963
.12	2N1397	.125	GT-83	.15	2N332	.15	2N482	.15	2N964
.12	2N1408	.125	GT-87	.15	2N332	.15	2N483	.15	2N964
.12	2N1450	.125	GT-88	.15	2N332 USN	.15	2N484	.15	2N964A
.12	2N1670	.125	GT-109	.15	2N333	.15	2N495	.15	2N965
.12	2N1678	.125	GT-122	.15	2N333	.15	2N496	.15	2N965
.12	2N2613	.125	GT-222	.15	2N333 USN	.15	2N501/18	.15	2N966
.12	2N2614	.125	OC70	.15	2N334	.15	2N519A	.15	2N966
.12	2N2953	.125	OC70	.15	2N334	.15	2N520	.15	2N967
.12	2SA74	.125	OC71	.15	2N334 USN	.15	2N520A	.15	2N967
.12	2SA75	.125	OC71	.15	2N335	.15	2N521A	.15	2N968
.12	2SA208	.125	OC72	.15	2N335	.15	2N522A	.15	2N969
.12	2SA209	.125	2-OC72	.15	2N335 USN	.15	2N523A	.15	2N970
.12	2SA210	.125	OC75	.15	2N336	.15	2N538A	.15	2N971
.12	2SA211	.125	OC75	.15	2N336	.15	2N538A	.15	2N972
.12	2SA212	.125	OC76	.15	2N356A	.15	2N538A	.15	2N973
.12	2SA217	.125	OC77	.15	2N357A	.15	2N559 USA	.15	2N974
.12	2SC89	.125	OC204	.15	2N358A	.15	2N581	.15	2N975
.12	2SC90	.125	OC205	.15	2N358A	.15	2N582	.15	2N985
.12	2SC91	.125	OC206	.15	2N377	.15	2N592	.15	2N1000
.12	2SC179	.125	TI493	.15	2N385	.15	2N593	.15	2N1012
.12	2SC180	.125	TI494	.15	2N388	.15	2N594	.15	2N1024
.12	2SC181	.125	TI495	.15	2N388	.15	2N595	.15	2N1025
.12	AF118	.13	CK870	.15	2N388A	.15	2N596	.15	2N1058
.12	BCY38	.13	CK871	.15	2N388 USN	.15	2N634	.15	2N1094 USA
.12	BCY39	.135	AC127	.15	2N394	.15	2N634A	.15	2N1115
.12	BCY40	.135	AC152	.15	2N395	.15	2N635	.15	2N1118
.12	GT-1200	.14	2N322	.15	2N396	.15	2N635A	.15	2N1118A
.12	SF.T163	.14	2N323	.15	2N396A USN	.15	2N636	.15	2N1119
.12	SF.T315	.14	2N324	.15	2N397	.15	2N636A	.15	2N1128
.12	SF.T316	.14	2N508	.15	2N398	.15	2N679	.15	2N1129
.12	SF.T354	.14	2N1144	.15	2N398A	.15	2N705	.15	2N1130
.12	SF.T357	.14	2N1145	.15	2N398 USN	.15	2N705	.15	2N1149
.12	SF.T357P	.14	2S848	.15	2N404	.15	2N705	.15	2N1150
.12	SF.T358	.14	2S849	.15	2N404	.15	2N705 USN	.15	2N1150/904
.125	2N279	.14	2S850	.15	2N404A	.15	2N710	.15	2N1151

.15 0.2

MAXIMUM P_C		MAXIMUM P_C		MAXIMUM P_C		MAXIMUM P_C		MAXIMUM P_C	
T_A	TRANSISTOR	T_A	TRANSISTOR	T_A	TRANSISTOR	T_A	TRANSISTOR	T_A	TRANSISTOR
.15	2N1151/904A	.15	2N2402	.15	101M	.15	TI492	0.2	2N191
.15	2N1152	.15	2N2428	.15	201A	.16	2N464	0.2	2N192
.15	2N1153	.15	2N2429	.15	201B	.16	2N466	0.2	2N241A
.15	2N1153/910	.15	2N2455	.15	201M	.16	2N467	0.2	2N321
.15	2N1169	.15	2N2456	.15	AR-101	.16	ACY17	0.2	2N322
.15	2N1170	.15	2N2482	.15	AR-102	.16	ACY18	0.2	2N323
.15	2N1219	.15	2N2942	.15	BFY10	.16	ACY19	0.2	2N324
.15	2N1220	.15	2N2493	.15	BFY11	.16	ACY20	0.2	2N331
.15	2N1221	.15	2N2529	.15	BSY10	.16	ACY21	0.2	2N331 JAN
.15	2N1222	.15	2N2530	.15	BSY11	.16	ACY22	0.2	2N359
.15	2N1223	.15	2N2531	.15	CK13	.16	OC83	0.2	2N360
.15	2N1251	.15	2N2532	.15	CK14	.16	OC84	0.2	2N361
.15	2N1273	.15	2N2533	.15	CK16	.165	2N281	0.2	2N377A
.15	2N1274	.15	2N2534	.15	CK17	.166	2N284	0.2	2N381
.15	2N1276	.15	2N2635	.15	CK25	.166	2N284A	0.2	2N382
.15	2N1277	.15	2N2942	.15	CK25	.167	2N1008	0.2	2N383
.15	2N1278	.15	2N2955	.15	CK27	.167	2N1008A	0.2	2N385A
.15	2N1279	.15	2N2956	.15	CK28	.167	2N1008B	0.2	2N388A
.15	2N1300	.15	2N2957	.15	CK768	.168	2N362	0.2	2N395
.15	2N1301	.15	2N2968	.15	CK882	.168	2N363	0.2	2N396
.15	2N1302	.15	2N2969	.15	CK888	.17	2SA128	0.2	2N396A
.15	2N1303	.15	2N2970	.15	DS-2	.17	2SA129	0.2	2N396A
.15	2N1304	.15	2N2971	.15	DS-6	.17	2SB265	0.2	2N397
.15	2N1305	.15	2S001	.15	DS-7	.17	AD121	0.2	2N404
.15	2N1306	.15	2S003	.15	DS-14	.171	2N658	0.2	2N413
.15	2N1307	.15	2S004	.15	DS-16	.171	2N659	0.2	2N414
.15	2N1308	.15	2S006	.15	GT-81	.171	2N660	0.2	2N416
.15	2N1309	.15	2SA65	.15	GT-34HV	.171	2N661	0.2	2N417
.15	2N1309	.15	2SA66	.150	GT-81HS	.171	2N662	0.2	2N425
.15	2N1370	.15	2SA67	.15	L5025A	.175	2N658	0.2	2N426
.15	2N1371	.15	2SA127	.15	NS665	.175	2N659	0.2	2N427
.15	2N1404	.15	2SA282	.15	NS666	.175	2N660	0.2	2N428
.15	2N1417	.15	2SA283	.15	NS667	.175	2N661	0.2	2N438A
.15	2N1418	.15	2SA284	.15	NS668	.175	2N662	0.2	2N439A
.15	2N1429	.15	2SB37	.15	SA-310	.175	MA112	0.2	2N440A
.15	2N1605	.15	2SB43	.15	SA-311	.175	MA113	0.2	2N461
.15	2N1605	.15	2SB55	.15	SA-312	.175	MA114	0.2	2N461 USAF
.15	2N1646	.15	2SB56	.15	SA-313	.175	MA115	0.2	2N470
.15	2N1683	.15	2SB61	.15	SA-314	.175	MA116	0.2	2N471
.15	2N1808	.15	2SB65	.15	SA-315	.175	MA117	0.2	2N472
.15	2N1853	.15	2SB66	.15	SA-316	.175	MA286	0.2	2N472A
.15	2N1854	.15	2SB75	.15	SA-410	.175	MA287	0.2	2N473
.15	2N1960	.15	2SB75A	.15	SA-411	.175	MA288	0.2	2N474
.15	2N1961	.15	2SB77	.15	SA-412	.18	2N35	0.2	2N475
.15	2N1969	.15	2SB77A	.15	SA-413	.18	2N213	0.2	2N475A
.15	2N1993	.15	2SB94	.15	SA-414	.18	2N213A	0.2	2N476
.15	2N1994	.15	2SB120	.15	SA-415	.18	2N214	0.2	2N477
.15	2N1995	.15	2SB155	.15	SA-416	.18	2N228	0.2	2N478
.15	2N1996	.15	2SB156	.15	SF.T184	.18	2N229	0.2	2N479
.15	2N2048	.15	2SB156A	.15	SF.T226	.18	2N291	0.2	2N480
.15	2N2162	.15	2SB168	.15	SF.T227	.18	2N306	0.2	2N480A
.15	2N2163	.15	2SB169	.15	SF.T228	.18	2N1059	0.2	2N508
.15	2N2164	.15	2SB291	.15	SF.T229	.18	2N1101	0.2	2N519
.15	2N2165	.15	2SB292	.15	SF.T237	.18	2N1102	0.2	2N520
.15	2N2166	.15	2SB292A	.15	SF.T288	.18	2N1114	0.2	2N521
.15	2N2167	.15	2SC71	.15	SF.T298	.18	2N1431	0.2	2N522
.15	2N2185	.15	2SC72	.15	SF.T306	.18	AFY18	0.2	2N523
.15	2N2258	.15	2SD33	.15	SF.T307	.18	CK721	0.2	2N541
.15	2N2259	.15	2SD37	.15	SF.T308	.18	CK722	0.2	2N542
.15	2N2274	.15	2SD75	.15	SF.T317	0.2	2G301	0.2	2N543
.15	2N2276	.15	2SD75A	.15	SF.T319	0.2	2G302	0.2	2N543A
.15	2N2278	.15	2SD77	.15	SF.T320	0.2	2G303	0.2	2N576
.15	2N2280	.15	2SD191	.15	SF.T337	0.2	2G304	0.2	2N576A
.15	2N2332	.15	2SD192	.15	ST9	0.2	2G306	0.2	2N587
.15	2N2333	.15	4C28	.15	ST29	0.2	2G308	0.2	2N650
.15	2N2334	.15	4C29	.15	ST903	0.2	2G309	0.2	2N650 USN
.15	2N2335	.15	4C30	.15	ST904	0.2	2G371	0.2	2N650A
.15	2N2336	.15	4C31	.15	ST904A	0.2	2G374	0.2	2N651
.15	2N2337	.15	4D20	.15	ST905	0.2	2G376	0.2	2N651A
.15	2N2372	.15	4D21	.15	ST910	0.2	2G377	0.2	2N651 USN
.15	2N2373	.15	4D22	.15	ST3031	0.2	2N186A	0.2	2N652
.15	2N2377	.15	64T1	.15	SYL1750	0.2	2N187A	0.2	2N652
.15	2N2378	.15	65T1	.15	SYL2189	0.2	2N188A	0.2	2N652 USN
.15	2N2400	.15	101A	.15	T-1046	0.2	2N189	0.2	2N653
.15	2N2401	.15	101B	.15	T-2357	0.2	2N190	0.2	2N653

MAXIMUM P_C		MAXIMUM P_C		MAXIMUM P_C		MAXIMUM P_C		MAXIMUM P_C	
T_A	TRANSISTOR	T_A	TRANSISTOR	T_A	TRANSISTOR	T_A	TRANSISTOR	T_A	TRANSISTOR
0.2	2N653	0.2	ACY33	.225	2N1924	.25	2N1173	.25	2SB89
0.2	2N654	0.2	ASY48	.225	2N1925	.25	2N1174	.25	2SB189
0.2	2N655	0.2	ASY70	.225	2N1926	.25	2N1195 JAN	.25	2SB199
0.2	2N658	0.2	CK790	.225	2SB200	.25	2N1204	.25	2SC191
0.2	2N659	0.2	CK791	.225	2SB202	.25	2N1219	.25	2SC192
0.2	2N660	0.2	CK793	.225	AC153	.25	2N1220	.25	2SC193
0.2	2N661	0.2	CK794	.225	SF.T221	.25	2N1221	.25	2SC194
0.2	2N662	0.2	DS-44	.225	SF.T222	.25	2N1222	.25	2SC195
0.2	2N917	0.2	DS-46	.225	SF.T223	.25	2N1223	.25	2SC196
0.2	2N918	0.2	FSP-42	.225	SF.T241	.25	2N1275	.25	2SC197
0.2	2N1017	0.2	FSP-42-1	.225	SF.T242	.25	2N1372	.25	2SD193
0.2	2N1018	0.2	FSP-166	.225	SF.T243	.25	2N1373	.25	2SD194
0.2	2N1097	0.2	FSP-166-1	.225	SF.T251	.25	2N1374	.25	BCZ10
0.2	2N1098	0.2	GET102	.225	SF.T252	.25	2N1375	.25	AR-2
0.2	2N1175	0.2	GET103	.225	SF.T253	.25	2N1376	.25	BCZ11
0.2	2N1185	0.2	GET104	.24	2N43	.25	2N1377	.25	BCZ11
0.2	2N1186	0.2	GET106	.24	2N43A	.25	2N1378	.25	BCZ12
0.2	2N1187	0.2	GET111	.24	2N44	.25	2N1379	.25	DS-26
0.2	2N1188	0.2	GET113	.24	2N230	.25	2N1380	.25	DS-29
0.2	2N1189	0.2	GET114	.24	2N319	.25	2N1381	.25	OC200
0.2	2N1190	0.2	MF1161	.24	2N320	.25	2N1444	.25	OC201
0.2	2N1191	0.2	MF1162	.24	2N321	.25	2N1469	.25	SYL2271
0.2	2N1192	0.2	MF1163	.24	2N1056	.250	2N1473	.25	T-1872
0.2	2N1193	0.2	SF.T321	.24	2N1057	.25	2N1474	.26	2N2786
0.2	2N1194	0.2	SF.T322	.24	2N1384	.25	2N1474A	.26	MHM1101
0.2	2N1204	0.2	SF.T323	.24	2N1614	.25	2N1474A	.275	2N1254
0.2	2N1204A	0.2	SF.T351	.24	2-OC83	.25	2N1475	.275	2N1255
0.2	2N1299	0.2	SF.T352	.24	2-OC84	.25	2N1475	.275	2N1256
0.2	2N1303	0.2	SF.T353	.24	SF.T162	.25	2N1476	.275	2N1257
0.2	2N1305	0.2	ST10	.245	BSY18	.25	2N1477	.275	2N1258
0.2	2N1307	0.2	ST11	.245	BSY62	.25	2N1478	.275	2N1259
0.2	2N1309	0.2	ST12	.245	BSY63	.25	2N1495	.275	2N2717
0.2	2N1382	0.2	ST13	.25	2G381	.25	2N1561	.275	ASZ21
0.2	2N1383	0.2	ST14	.25	2G382	.25	2N1562	.275	HA9048
0.2	2N1404	0.2	ST15	.25	2N223	.25	2N1643	.275	HA9049
0.2	2N1413	0.2	ST30	.25	2N224	.25	2N1917	.28	2N2430
0.2	2N1414	0.2	ST31	.25	2N226	.25	2N1917	0.3	2G110
0.2	2N1415	0.2	ST32	.25	2N270	.25	2N1918	0.3	2N670
0.2	2N1605A	0.2	ST33	.25	2N398B	.25	2N1918	0.3	2N672
0.2	2N1605A	0.2	ST34	.25	2N398B	.25	2N1919	0.3	2N702
0.2	2N2042A	0.2	ST35	.25	2N537 USA	.25	2N1920	0.3	2N702 USA
0.2	2N2043A	0.2	ST40	.25	2N586	.25	2N1921	0.3	2N703
0.2	2N2172	0.2	ST41	.25	2N597	.25	2N1922	0.3	2N703 USA
0.2	2N2207	0.2	ST42	.25	2N598	.25	2N1997	0.3	2N706
0.2	2N2225	0.2	ST44	.25	2N599	.25	2N1998	0.3	2N706
0.2	2N2370	0.2	ST45	.25	2N935	.25	2N1999	0.3	2N706
0.2	2N2371	0.2	T-1505	.25	2N936	.25	2N2002	0.3	2N706A
0.2	2N2711	0.2	T-2092	.25	2N937	.25	2N2003	0.3	2N706A
0.2	2N2712	0.2	ZT2708	.25	2N938	.25	2N2004	0.3	2N706B
0.2	2N2713	.205	OC122	.25	2N939	.25	2N2004	0.3	2N706B
0.2	2N2714	.205	OC123	.25	2N940	.25	2N2005	0.3	2N706M JAN
0.2	2N2715	.225	2N320	.25	2N941	.25	2N2006	0.3	2N707
0.2	2N2716	.225	2N321	.25	2N942	.25	2N2007	0.3	2N707
0.2	2N2857	.225	2N322	.25	2N943	.25	2N2096	0.3	2N707
0.2	2N2865	.225	2N323	.25	2N944	.25	2N2097	0.3	2N708/51
0.2	2SB52	.225	2N324	.25	2N945	.25	2N2099	0.3	2N709
0.2	2SB51	.225	2N460	.25	2N946	.25	2N2100	0.3	2N709
0.2	2SB53	.225	2N524	.25	2N957	.25	2N2271	0.3	2N709A
0.2	2SB263	.225	2N524A	.25	2N957	.25	2N2374	0.3	2N709/46
0.2	2SB370	.225	2N525	.25	2N1024	.25	2N2375	0.3	2N709A/46
0.2	2SC16	.225	2N525A	.25	2N1025	.25	2N2376	0.3	2N709/51
0.2	2SC16A	.225	2N526	.25	2N1026	.25	2N2617	0.3	2N709A/51
0.2	2SC17	.225	2N526A	.25	2N1027	.25	2N2673	0.3	2N726
0.2	2SC17A	.225	2N526 JAN	.25	2N1028	.25	2N2674	0.3	2N727
0.2	2SC18	.225	2N527	.25	2N1034	.25	2N2675	0.3	2N743
0.2	2SC103	.225	2N527A	.25	2N1034	.25	2N2676	0.3	2N744
0.2	2SC104	.225	2N626 JAN	.25	2N1035	.25	2N2677	0.3	2N753
0.2	2SC166	.225	2N1118	.25	2N1035	.25	2N2678	0.3	2N753
0.2	2SC167	.225	2N1119	.25	2N1036	.25	2S301	0.3	2N753
0.2	2SC171	.225	2N1175	.25	2N1036	.25	2S302	0.3	2N754
0.2	2T321	.225	2N1195	.25	2N1037	.25	2S303	0.3	2N755
0.2	2T322	.225	2N1413	.25	2N1037	.25	2S304	0.3	2N780
0.2	2T323	.225	2N1413	.25	2N1037	.25	2S305	0.3	2N783
0.2	2T324	.225	2N1414	.25	2N1039	.25	2SB34	0.3	2N784
0.2	2T383	.225	2N1415	.25	2N1057	.25	2SB38	0.3	2N784/51

0.3

0.4

MAXIMUM P_C		MAXIMUM P_C		MAXIMUM P_C		MAXIMUM P_C		MAXIMUM P_C	
T_A	TRANSISTOR	T_A	TRANSISTOR	T_A	TRANSISTOR	T_A	TRANSISTOR	T_A	TRANSISTOR
0.3	2N834	0.3	2S131	.337	2N621	.375	FM870	0.4	2N1039 USN
0.3	2N834	0.3	2S301	.337	2N622	.375	FM871	0.4	2N1041 USN
0.3	2N835	0.3	2S302	.35	2N784A/46	.38	OC702B	0.4	2N1118
0.3	2N835	0.3	2S303	.35	2N1060	.38	OC703	0.4	2N1118A
0.3	2N839	0.3	2S304	.35	2N1196	.38	OC703A	0.4	2N1119
0.3	2N840	0.3	2S305	.35	2N1197	.38	OC704	0.4	2N1219
0.3	2N841	0.3	2S321	.35	2N1692	.38	OC740	0.4	2N1220
0.3	2N842	0.3	2S322	.35	2N1693	.38	OC740M	0.4	2B1221
0.3	2N843	0.3	2S323	.35	2N3043	.38	OC740Q	0.4	2N1222
0.3	2N844	0.3	2S324	.35	2N3044	.38	OC742	0.4	2N1223
0.3	2N845	0.3	2S325	.35	2N3045	.38	OC742M	0.4	2N1228
0.3	2N849	0.3	2SB201	.35	2N3046	.38	OC742Q	0.4	2N1229
0.3	2N850	0.3	2SC74	.35	2N3047	.385	2N327A	0.4	2N1230
0.3	2N851	0.3	2SC172	.35	2N3048	.385	2N327A	0.4	2N1231
0.3	2N852	0.3	11C702	.35	2N3049	.385	2N328A	0.4	2N1232
0.3	2N914/51	0.3	11C704	.35	2N3050	.385	2N328A	0.4	2N1233
0.3	2N929	0.3	11C710	.35	2N3051	.385	2N328A	0.4	2N1234
0.3	2N929	0.3	NS381	.35	2N3052	.385	2N329A	0.4	2N1238
0.3	2N930	0.3	NS382	.35	2SB67	.385	2N329A	0.4	2N1239
0.3	2N930	0.3	OC122	.35	2SB67A	0.4	2N327B	0.4	2N1240
0.3	2N1124	0.3	OC123	.35	SF.T124	0.4	2N328B	0.4	2N1241
0.3	2N1125	0.3	ST1504	.35	SF.T125	0.4	2N329B	0.4	2N1242
0.3	2N1141	0.3	ST1505	.35	SF.T125P	0.4	2N330A	0.4	2N1243
0.3	2N1142	0.3	T-1542	.35	SF.T143	0.4	2N631	0.4	2N1244
0.3	2N1143	0.3	TI485	.35	SF.T144	0.4	2N632	0.4	2N1275
0.3	2N1176	0.3	TI490	.35	ZT20	0.4	2N633	0.4	2N1429
0.3	2N1176A	0.3	ZT40	.35	ZT21	0.4	2N650	0.4	2N1439
0.3	2N1176B	0.3	ZT41	.35	ZT22	0.4	2N651	0.4	2N1439
0.3	2N1176B	0.3	ZT42	.35	ZT23	0.4	2N652	0.4	2N1440
0.3	2N1494	0.3	ZT43	.35	ZT24	0.4	2N708/46	0.4	2N1440
0.3	2N1496	0.3	ZT44	.36	2N706C	0.4	2N717	0.4	2N1441
0.3	2N1708	0.3	ZT83	.36	2N708	0.4	2N717	0.4	2N1441
0.3	2N1958/18	0.3	ZT84	.36	2N708	0.4	2N718	0.4	2N1442
0.3	2N1959/18	0.3	ZT86	.36	2N708	0.4	2N718	0.4	2N1442
0.3	2N2000	0.3	ZT202	.36	2N784A	0.4	2N719	0.4	2N1443
0.3	2N2001	0.3	ZT203	.36	2N869	0.4	2N719	0.4	2N1443
0.3	2N2095	0.3	ZT204	.36	2N914	0.4	2N720	0.4	2N1469
0.3	2N2098	0.3	ZT402	.36	2N914	0.4	2N720	0.4	2N1474
0.3	2N2205	0.3	ZT403	.36	2N914	0.4	2N721	0.4	2N1474A
0.3	2N2206	0.3	ZT404	.36	2N915	0.4	2N721	0.4	2N1475
0.3	2N2319	0.3	ZT706	.36	2N915	0.4	2N722	0.4	2N1476
0.3	2N2381	0.3	ZT709	.36	2N916	0.4	2N722	0.4	2N1477
0.3	2N2382	0.3	ZT1708	.36	2N919	0.4	2N858	0.4	2N1623
0.3	2N2387	0.3	ZT2205	.36	2N920	0.4	2N859	0.4	2N1640
0.3	2N2388	0.3	ZT2206	.36	2N921	0.4	2N860	0.4	2N1641
0.3	2N2397	0.3	ZT2475	.36	2N922	0.4	2N861	0.4	2N1642
0.3	2N2411	.312	BCY10	.36	2N947	0.4	2N862	0.4	2N1643
0.3	2N2412	.312	BCY11	.36	2N995	0.4	2N863	0.4	2N1655
0.3	2N2413	.312	BCY12	.36	2N996	0.4	2N864	0.4	2N1656
0.3	2N2432	.33	2N978	.36	2N2318	0.4	2N865	0.4	2N1917
0.3	2N2475	.33	OC430	.36	2N2368	0.4	2N909	0.4	2N1918
0.3	2N2475/46	.33	OC440	.36	2N2369	0.4	2N914/46	0.4	2N1919
0.3	2N2475/51	.33	OC450	.36	2N2369A	0.4	2N935	0.4	2N1920
0.3	2N2616	.33	OC460	.36	2N2481	0.4	2N936	0.4	2N1921
0.3	2N2639	.33	OC463	.36	2N2483	0.4	2N937	0.4	2N1922
0.3	2N2640	.33	OC465	.36	2N2484	0.4	2N938	0.4	2N1962
0.3	2N2641	.33	OC466	.36	2N2501	0.4	2N939	0.4	2N1963
0.3	2N2642	.33	OC468	.36	2N2509	0.4	2N940	0.4	2N1964
0.3	2N2643	.33	OC469	.36	2N2510	0.4	2N941	0.4	2N1965
0.3	2N2644	.33	OC470	.36	2N2511	0.4	2N943	0.4	2N1990/46
0.3	2N2648	.33	OC480	.36	2N2651	0.4	2N944	0.4	2N2004
0.3	2N2692	.33	OC700	.36	2N2656	0.4	2N945	0.4	2N2185
0.3	2N2693	.33	OC700A	.36	2N2710	0.4	2N946	0.4	2N2274
0.3	2N2694	.33	OC700B	.36	2N2845	0.4	2N1008	0.4	2N2276
0.3	2N2729	.33	OC701	.36	2N2847	0.4	2N1008A	0.4	2N2278
0.3	2N2784	.33	OC702	.36	2N2894	0.4	2N1008B	0.4	2N2280
0.3	2N2784/46	.33	OC702A	.36	2N3013	0.4	2N1008B M	0.4	2N2350
0.3	2N2784/51	.337	2N327	.36	2N3014	0.4	2N1024	0.4	2N2350A
0.3	2N2861	.337	2N327A	.36	2N3037	0.4	2N1026A	0.4	2N2351
0.3	2N2862	.337	2N328	.36	2N3038	0.4	2N1027	0.4	2N2351A
0.3	2N2938	.337	2N329	.36	2N3039	0.4	2N1028	0.4	2N2352
0.3	2N3033	.337	2N330	.36	2N3040	0.4	2N1034	0.4	2N2352A
0.3	2N3034	.337	2N330A	.36	PT1746	0.4	2N1035	0.4	2N2353
0.3	2N3035	.337	2N619	.36	PT720	0.4	2N1036	0.4	2N2353A
0.3	2S101	.337	2N620	.36	ZT708	0.4	2N1037	0.4	2N2364

MAXIMUM P_C		MAXIMUM P_C		MAXIMUM P_C		MAXIMUM P_C		MAXIMUM P_C	
T_A	TRANSISTOR	T_A	TRANSISTOR	T_A	TRANSISTOR	T_A	TRANSISTOR	T_A	TRANSISTOR
0.4	2N2364A	0.4	NS477	0.5	2N956	0.5	NS1110	0.6	2N1958
0.4	2N2424	0.4	NS478	0.5	2N956	0.5	OC42	0.6	2N1958A
0.4	2N2424	0.4	NS479	0.5	2N997	.55	OC74	0.6	2N1959
0.4	2N2425	0.4	NS480	0.5	2N1038	.55	OC79	0.6	2N1959A
0.4	2N2425	0.4	NS661	0.5	2N1039	.55	OC80	0.6	2N1972
0.4	2N2459	0.4	NS662	0.5	2N1040	.55	SF.T130	0.6	2N1983
0.4	2N2460	0.4	NS663	0.5	2N1041	.55	SF.T131	0.6	2N1984
0.4	2N2461	0.4	NS664	0.5	2N1042	.55	SF.T131P	0.6	2N1985
0.4	2N2462	0.4	NS732	0.5	2N1043	.55	SF.T145	0.6	2N1985
0.4	2N2515	0.4	NS733	0.5	2N1044	.55	SF.T146	0.6	2N1986
0.4	2N2516	0.4	NS734	0.5	2N1045	0.6	2N497	0.6	2N1986
0.4	2N2518	0.4	T-1601	0.5	2N1051	0.6	2N498	0.6	2N1987
0.4	2N2519	.415	PADT35	0.5	2N1491	0.6	2N545	0.6	2N1987
0.4	2N2512	.44	GET105	0.5	2N1492	0.6	2N546	0.6	2N1988
0.4	2N2522	.44	GET110	0.5	2N1493	0.6	2N547	0.6	2N1988
0.4	2N2523	.44	GET115	0.5	2N1496	0.6	2N548	0.6	2N1989
0.4	2N2524	.44	GET116	0.5	2N1613	0.6	2N549	0.6	2N1989
0.4	2N2551	.44	GET120	0.5	2N1704	0.6	2N550	0.6	2N1990
0.4	2N2590	.45	SF.T232	0.5	2N1711	0.6	2N551	0.6	2N1991
0.4	2N2591	.45	SF.T233	0.5	2N2220	0.6	2N552	0.6	2N2060
0.4	2N2592	.45	SF.T234	0.5	2N2221	0.6	2N656	0.6	2N2086
0.4	2N2593	0.5	2N332A	0.5	2N2222	0.6	2N657	0.6	2N2087
0.4	2N2595	0.5	2N333A	0.5	2N2244	0.6	2N696	0.6	2N2137
0.4	2N2596	0.5	2N334A	0.5	2N2245	0.6	2N696	0.6	2N2195
0.4	2N2597	0.5	2N335A	0.5	2N2246	0.6	2N696	0.6	2N2195A
0.4	2N2598	0.5	2N336A	0.5	2N2247	0.6	2N697	0.6	2N2195B
0.4	2N2599	0.5	2N337A	0.5	2N2248	0.6	2N697	0.6	2N2223
0.4	2N2600	0.5	2N338A	0.5	2N2249	0.6	2N697	0.6	2N2223A
0.4	2N2601	0.5	2N560 JAN	0.5	2N2250	0.6	2N697	0.6	2N2303
0.4	2N2602	0.5	2N560 JAN	0.5	2N2251	0.6	2N698	0.6	2N2320
0.4	2N2603	0.5	2N707A	0.5	2N2252	0.6	2N698	0.6	2N2380
0.4	2N2604	0.5	2N716	0.5	2N2253	0.6	2N699	0.6	2N2380A
0.4	2N2605	0.5	2N718A	0.5	2N2254	0.6	2N699	0.6	2N2476
0.4	2N2618/46	0.5	2N718A	0.5	2N2255	0.6	2N699	0.6	2N2477
0.4	2N2659	0.5	2N718A	0.5	2N2331	0.6	2N738	0.6	2N2478
0.4	2N2660	0.5	2N719A	0.5	2N2463	0.6	2N739	0.6	2N2479
0.4	2N2661	0.5	2N730	0.5	2N2464	0.6	2N740	0.6	2N2618
0.4	2N2665	0.5	2N731	0.5	2N2465	0.6	2N1054	0.6	2N2904
0.4	2N2666	0.5	2N735	0.5	2N2466	0.6	2N1116	0.6	2N2904A
0.4	2N2667	0.5	2N735A	0.5	2N2520	0.6	2N1117	0.6	2N2905
0.4	2N2906	0.5	2N736	0.5	2N2539	0.6	2N1131	0.6	2N2905A
0.4	2N2906A	0.5	2N736A	0.5	2N2540	0.6	2N1131A	0.6	2N3081
0.4	2N2907	0.5	2N736B	0.5	2N2645	0.6	2N1132	0.6	2S711
0.4	2N2907A	0.5	2N738	0.5	2N2706	0.6	2N1132	0.6	2S712
0.4	2N2909	0.5	2N739	0.5	2N2790	0.6	2N1132A	0.6	2SC19
0.4	2S102	0.5	2N739A	0.5	2N2791	0.6	2N1132B	0.6	2SC20
0.4	2S103	0.5	2N740	0.5	2N2792	0.6	2N1132B	0.6	4C43
0.4	2S104	0.5	2N740A	0.5	2N2802	0.6	2N1252	0.6	ASZ20
0.4	2S731	0.5	2N742	0.5	2N2803	0.6	2N1253	0.6	BFY12
0.4	2S732	0.5	2N742A	0.5	2N2804	0.6	2N1253	0.6	BFY13
0.4	2S733	0.5	2N756	0.5	2N2805	0.6	2N1253	0.6	BFY14
0.4	C101	0.5	2N756A	0.5	2N2806	0.6	2N1409	0.6	BFY33
0.4	C102	0.5	2N757	0.5	2N2807	0.6	2N1410	0.6	BFY34
0.4	C103	0.5	2N757A USA	0.5	2N2837	0.6	2N1420	0.6	BSY34
0.4	C106	0.5	2N758	0.5	2N2838	0.6	2N1420	0.6	BSY58
0.4	C118	0.5	2N758A	0.5	2N2895	0.6	2N1507	0.6	DTI61
0.4	C119	0.5	2N759	0.5	2N2896	0.6	2N1507	0.6	M1X
0.4	C201	0.5	2N759A USA	0.5	2N2897	0.6	2N1564	0.6	PT850
0.4	C202	0.5	2N759B	0.5	2N2898	0.6	2N1564	0.6	PT851
0.4	C301	0.5	2N760	0.5	2N2899	0.6	2N1565	0.6	SF.T186
0.4	C302	0.5	2N760A	0.5	2N2900	0.6	2N1565	0.6	SP8400
0.4	C401	0.5	2N760A USA	0.5	2N2949	0.6	2N1566	0.6	SP8401
0.4	C402	0.5	2N760B	0.5	2N2952	0.6	2N1566	0.6	SP8402
0.4	NS731	0.5	2N761	0.5	31N2	0.6	2N1566A	0.6	ST4150
0.4	HA7630	0.5	2N762	0.5	32N2	0.6	2N1572	0.6	ST4201
0.4	HA7631	0.5	2N870	0.5	34N2	0.6	2N1572	0.6	ST4202
0.4	HA7632	0.5	2N870	0.5	35N2	0.6	2N1573	0.6	ST4203
0.4	HA7633	0.5	2N871	0.5	38N2	0.6	2N1573	0.6	ST4202
0.4	HA7730	0.5	2N871	0.5	39N2	0.6	2N1574	0.6	TI480
0.4	HA7731	0.5	2N910	0.5	40N2	0.6	2N1574	0.6	TI481
0.4	HA7732	0.5	2N911	0.5	41N2	0.6	2N1644	0.6	TI482
0.4	HA7733	0.5	2N912	0.5	42N2	0.6	2N1837	0.6	TI483
0.4	MHM1001	0.5	2N929A	0.5	MM511	0.6	2N1838	0.6	TI484
0.4	NS475	0.5	2N930A	0.5	MM512	0.6	2N1839	0.6	TI496
0.4	NS476	0.5	2N956	0.5	MM513	0.6	2N1840	0.6	XT1A

MAXIMUM P_C		MAXIMUM P_C		MAXIMUM P_C		MAXIMUM P_C		MAXIMUM P_C	
T_A	TRANSISTOR	T_A	TRANSISTOR	T_A	TRANSISTOR	T_A	TRANSISTOR	T_A	TRANSISTOR
0.6	XT1B	0.8	2N1716	0.8	PT850A	1.0	2SD121	2.0	2N2197
0.6	XT1C	0.8	2N1717	0.8	TI486	1.0	7A30	2.0	2N2201
0.6	XT1D	0.8	2N1837A	0.8	ZT1613	1.0	7A31	2.0	2N2781
0.6	ZT696	0.8	2N1889	0.8	ZT1711	1.0	7A32	2.0	2N2782
0.6	ZT697	0.8	2N1890	.87	2N699B	1.0	7C1	2.0	2N2783
0.6	ZT2476	0.8	2N1893	.875	2N1139	1.0	7C2	2.0	2N2874
0.6	ZT2477	0.8	2N1893A	0.9	2N498	1.0	7C3	2.0	2N2991
0.7	2N2950	0.8	2N1973	0.9	2N2662	1.0	7D1	2.0	2N2992
0.7	2SC12	0.8	2N1973	0.9	2N2663	1.0	7D2	2.0	2N2993
0.7	RT5001	0.8	2N1974	0.9	2N2664	1.0	7D3	2.0	2N2994
0.7	RT5002	0.8	2N1974	0.9	2N2668	1.0	7E1	2.0	7B1
0.7	RT5003	0.8	2N1975	0.9	2N2669	1.0	7E2	2.0	7B2
0.7	RT5004	0.8	2N1975	0.9	2N2670	1.0	7E3	2.0	CTP1104
.75	2N342B	0.8	2N2008	1.0	2N101/13	1.0	7F1	2.0	CTP1108
.75	2N343B	0.8	2N2049	1.0	2N102/13	1.0	7F2	2.0	CTP1109
.75	2N600	0.8	2N2192	1.0	2N144/13	1.0	7F3	2.0	CTP1111
.75	2N601	0.8	2N2192	1.0	2N339	1.0	7F4	2.0	PT530A
.75	2N1123	0.8	2N2192A	1.0	2N339	1.0	11C201B20	2.0	PT600
.75	2N1154	0.8	2N2192B	1.0	2N339A	1.0	11C203B20	2.0	PT601
.75	2N1155	0.8	2N2193	1.0	2N340	1.0	11C205B20	2.0	PT613
.75	2N1156	0.8	2N2193A	1.0	2N340A	1.0	11C207B20	2.0	PT692
.75	2N1158A	0.8	2N2193B	1.0	2N341	1.0	11C210B20	2.0	TI487
.75	2N2279/51	0.8	2N2194	1.0	2N341A	1.0	11C211B20	2.0	X-78
.75	2SC110	0.8	2N2194A	1.0	2N342	1.0	DT1110	2.5	GA-53242
.75	2SC111	0.8	2N2194B	1.0	2N343	1.0	DT1111	3.0	2N1722
.75	2SC112	0.8	2N2217	1.0	2N528	1.0	DT1112	3.0	2N1723
.75	2SC113	0.8	2N2218	1.0	2N671	1.0	DT1120	3.0	2N1724
.75	2SC114	0.8	2N2219	1.0	2N673	1.0	DT1121	3.0	2N1725
.75	2SC116	0.8	2N2220	1.0	2N1047	1.0	DT1122	3.0	2N2173
.75	2SC150	0.8	2N2221	1.0	2N1047A	1.0	GF-40022	3.5	2N389
.75	2SC151	0.8	2N2222	1.0	2N1047B	1.0	HA7531	3.5	2N389
.75	2SC152	0.8	2N2243	1.0	2N1048	1.0	HA7597	3.5	2N424
.75	2SC153	0.8	2N2243A	1.0	2N1048A	1.0	HA7598	3.5	2N424
0.8	2N497	0.8	2N2297	1.0	2N1048B	1.0	HA7599	3.5	2N1208
0.8	2N497A	0.8	2N2330	1.0	2N1049	1.0	OC81	3.5	2N1209
0.8	2N498	0.8	2N2868	1.0	2N1049A	1.0	OC81D	3.5	2N1210
0.8	2N498A	0.8	2N2410	1.0	2N1049B	1.0	TA6200	3.5	2N1211
0.8	2N656	0.8	2N2440	1.0	2N1050	1.0	ZT91	3.5	2N1212
0.8	2N656	0.8	2N2443	1.0	2N1050A	1.0	ZT92	3.5	2N1616
0.8	2N656A	0.8	2N2537	1.0	2N1050B	1.0	ZT2270	3.5	2N1617
0.8	2N657	0.8	2N2538	1.0	2N1126	1.15	11C1F1	3.5	2N1617
0.8	2N657A	0.8	2N2540	1.0	2N1127	1.15	11C3F1	3.5	2N1618
0.8	2N698	0.8	2N2787	1.0	2N1183	1.15	11C5F1	3.5	2N1618
0.8	2N698	0.8	2N2788	1.0	2N1183A	1.15	11C7F1	3.5	2N1620
0.8	2N698	0.8	2N2789	1.0	2N1183B	1.15	11C10F1	3.5	2N1647
0.8	2N720A	0.8	2N2800	1.0	2N1184	1.15	11C11F1	3.5	2N1648
0.8	2N870	0.8	2N2801	1.0	2N1184A	1.25	2N2657	3.5	2N1649
0.8	2N871	0.8	2N2846	1.0	2N1184B	1.25	2N2658	3.5	2N1650
0.8	2N910	0.8	2N2848	1.0	2N1206	1.4	MHT4501	3.5	ST400
0.8	2N911	0.8	2N2863	1.0	2N1207	1.4	MHT4502	3.5	ST401
0.8	2N912	0.8	2N2864	1.0	2N1645	1.5	2N156	3.5	ST440
0.8	2N1335	0.8	2N2883	1.0	2N2017	1.5	2N158	3.5	ST450
0.8	2N1336	0.8	2N2884	1.0	2N2102	1.5	2N158A	3.6	OC30
0.8	2N1338	0.8	2N2951	1.0	2N2106	1.5	7G1	4.0	2S017
0.8	2N1339	0.8	2N3036	1.0	2N2107	1.5	7G2	4.0	2S018
0.8	2N1340	0.8	2N3108	1.0	2N2108	1.5	7G3	4.0	2S019
0.8	2N1341	0.8	2N3110	1.0	2N2202	1.5	7G4	4.0	2S020
0.8	2N1342	0.8	2SC70	1.0	2N2203	1.5	11C1B1	4.0	2SB367
0.8	2N1409A	0.8	BSY51	1.0	2N2204	1.5	11C3B1	4.0	2SB368
0.8	2N1410A	0.8	BSY52	1.0	2N2270	1.5	11C5B1	5.0	AR-1
0.8	2N1420A	0.8	BSY53	1.0	2N2405	1.5	11C7B1	6.0	2N2137
0.8	2N1505	0.8	BSY54	1.0	2N2726	1.5	11C10B1	6.5	AD148
0.8	2N1505	0.8	BSY55	1.0	2N2727	1.5	11C11B1	6.5	AUY18
0.8	2N1505	0.8	BSY56	1.0	2N2983	2.0	2N611	7.0	AD136
0.8	2N1506	0.8	DT1510	1.0	2N2984	2.0	2N1072 USA	7.0	AR-5
0.8	2N1506	0.8	DT1511	1.0	2N2985	2.0	2N1709	9.0	AD149
0.8	2N1506A	0.8	DT1512	1.0	2N2986	2.0	2N1710	9.0	AD150
0.8	2N1506	0.8	DT1520	1.0	2N2987	2.0	2N1718	9.0	ADY27
0.8	2N1506A	0.8	DT1521	1.0	2N2988	2.0	2N1719	10	AR-6
0.8	2N1613	0.8	DT1522	1.0	2N2989	2.0	2N1720	10	AR-7
0.8	2N1711	0.8	MHT4401	1.0	2N2990	2.0	2N1721	10	AR-9
0.8	2N1711	0.8	MHT4402	1.0	2N3118	2.0	2N1841	10	AR-10
0.8	2N1711	0.8	MM486	1.0	2N3119	2.0	2N2150	10	AR-11
0.8	2N1714	0.8	MM487	1.0	2N3262	2.0	2N2151	10	AR-12
0.8	2N1715	0.8	MM488	1.0	2SD120	2.0	2N2196	10	AR-13

MAXIMUM P_C		MAXIMUM P_C		MAXIMUM P_C		MAXIMUM P_C		MAXIMUM P_C	
T_A	TRANSISTOR	T_A	TRANSISTOR	T_A	TRANSISTOR	T_A	TRANSISTOR	T_A	TRANSISTOR
12	2SB274								
12	AR-8								
12	AR-8A								
12.6	OC26								
13	2N1314								
13	AD130								
13	AD131								
13	AD132								
13	AD133								
13	AUY19								
13	AUY20								
13	AUY21								
13	AUY22								
13	OC26								
16	2SB202								
16	2SB203								
16	2SB204								
16	2SB205								
16	2SB206								
16	2SB207								
16	2SB208								
16	2SB209								
16	2SB210								
16	2SB211								
16	2SB212								
16	2SB213								
16	2SB214								
16	H15A								
16	H15B								
16	L15A								
16	L15B								
16	OC22								
16	OC23								
16	OC24								
16	U15A								
16	U15B								
18.5	OC22								
18.5	OC23								
18.5	OC24								
24	OC16								
25	2N234A								
30	2N1666								
30	2N1667								
30	2N1668								
30	2N1669								
30	OC28								
30	OC29								
30	OC35								
30	OC36								
83	2N2089								
83	2N2090								
83	2N2091								
110	2N554								

MAXIMUM P_C		MAXIMUM P_C		MAXIMUM P_C		MAXIMUM P_C		MAXIMUM P_C	
T_C	TRANSISTOR	T_C	TRANSISTOR	T_C	TRANSISTOR	T_C	TRANSISTOR	T_C	TRANSISTOR
.01	2N376	0.3	2N970	0.5	2N754	.66	OC700B	1.0	2N783
0.1	2N502B	0.3	2N971	0.5	2N755	.66	OC701	1.0	2N784
0.1	2N591	0.3	2N972	0.5	2N834	.66	OC702	1.0	2N784/51
.15	2N695	0.3	2N973	0.5	2N835	.66	OC702A	1.0	2N834
0.2	2N110	0.3	2N974	0.5	2N839	.66	OC702B	1.0	2N835
.24	2N247/33	0.3	2N975	0.5	2N840	.66	OC703	1.0	2N914/51
.24	2N384/33	0.3	2N985	0.5	2N841	.66	OC703A	1.0	2N1507
.24	2N1023	0.3	2N1000	0.5	2N842	.66	OC704	1.0	2N1708
.24	2N1066	0.3	2N1300	0.5	2N843	.75	2N243	1.0	2N1958/18
.24	2N1224	0.3	2N1301	0.5	2N844	.75	2N244	1.0	2N1959/18
.24	2N1224 USA	0.3	2N1302	0.5	2N845	.75	2N709/51	1.0	2N1960
.24	2N1225	0.3	2N1303	0.5	2N1204	.75	2N709A/51	1.0	2N1961
.24	2N1225 USA	0.3	2N1304	0.5	2N1494	.75	2N1141	1.0	2N2095
.24	2N1226	0.3	2N1305	0.5	2N1496	.75	2N1142	1.0	2N2098
.24	2N1395	0.3	2N1306	0.5	2N1997	.75	2N1143	1.0	2N2137
.24	2N1396	0.3	2N1307	0.5	2N1998	.75	2N1154/951	1.0	2N2205
.24	2N1396	0.3	2N1308	0.5	2N1999	.75	2N1155/952	1.0	2N2206
.24	2N1397	0.3	2N1309	0.5	2N2428	.75	2N1156/953	1.0	2N2256
.25	2N2188	0.3	2N1309	0.5	2N2429	.75	2N2096	1.0	2N2257
.25	2N2189	0.3	2N1605	0.5	2N2475	.75	2N2097	1.0	2N2411
.25	2N2190	0.3	2N1683	0.5	2N2784	.75	2N2099	1.0	2N2412
.25	2N2191	0.3	2N1699	0.5	2SB200	.75	2N2100	1.0	2N2413
.28	AC127	0.3	2N1808	0.5	2SB202	.75	2N2381	1.0	2N2569
0.3	2G103	0.3	2N1993	0.5	ST1504	.75	2N2382	1.0	2N2570
0.3	2G104	0.3	2N1994	0.5	ST1505	0.8	2N957	1.0	2N2692
0.3	2N291	0.3	2N1995	0.5	ZT709	0.8	2N957	1.0	2N2802
0.3	2N388	0.3	2N1996	0.5	ZT2475	0.8	2N2616	1.0	2N2803
0.3	2N388A	0.3	2N2258	.55	2N43	0.8	2N2729	1.0	2N2804
0.3	2N404	0.3	2N2259	.55	2N43A	0.8	ACY33	1.0	2N2805
0.3	2N404A	0.3	2N2613	.55	2N44	0.8	ASY48	1.0	2N2806
0.3	2N426	0.3	2N2614	.55	2N524	0.8	ASY70	1.0	2N2807
0.3	2N427	0.3	2N2635	.55	2N524A	0.8	GET105	1.0	2N2861
0.3	2N428	0.3	2N2857	.55	2N525	0.8	GET110	1.0	2N2862
0.3	2N428	0.3	2N2865	.55	2N525A	0.8	GET115	1.0	2N2938
0.3	2N559 USA	0.3	2N2953	.55	2N526	0.8	GET116	1.0	2N3033
0.3	2N594	0.3	2N2955	.55	2N526A	0.8	GET120	1.0	2N3034
0.3	2N595	0.3	2N2956	.55	2N526 JAN	.875	BSY18	1.0	2N3035
0.3	2N596	0.3	2N2957	.55	2N527	.875	BSY62	1.0	2N3037
0.3	2N705	0.3	MF1161	.55	2N527A	.875	BSY63	1.0	2N3038
0.3	2N705	0.3	MF1162	0.6	2N702	0.9	AC153	1.0	2N3039
0.3	2N705 USN	0.3	MF1163	0.6	2N703	1.0	2N339	1.0	2N3040
0.3	2N710	0.3	MF1164	0.6	2N929	1.0	2N340	1.0	2SC172
0.3	2N710	0.3	SYL2189	0.6	2N929	1.0	2N341	1.0	11C702
0.3	2N711	.333	2N659	0.6	2N930	1.0	2N343	1.0	11C704
0.3	2N711A	.333	2N660	0.6	2N930	1.0	2N342A	1.0	11C710
0.3	2N711A	.333	2N661	0.6	2N2000	1.0	2N342B	1.0	HA7630
0.3	2N711B	.333	2N662	0.6	2N2001	1.0	2N343	1.0	HA7631
0.3	2N741	.335	2N658	0.6	2N2432	1.0	2N343B	1.0	HA7632
0.3	2N741A	.335	2N658	0.6	2N2551	1.0	2N696	1.0	HA7633
0.3	2N781	.35	2N1992	0.6	2N2639	1.0	2N697	1.0	HA7730
0.3	2N782	0.4	2N1008	0.6	2N2640	1.0	2N699	1.0	HA7731
0.3	2N797	0.4	2N1008A	0.6	2N2641	1.0	2N706	1.0	HA7732
0.3	2N828	0.4	2N1008B	0.6	2N2642	1.0	2N706	1.0	HA7733
.30	2N828	0.4	2N1413	0.6	2N2643	1.0	2N706	1.0	MHM1101
.30	2N829	0.4	2N1413	0.6	2N2644	1.0	2N706A	1.0	PT851
0.3	2N917	0.4	2N1414	0.6	2N2693	1.0	2N706A	1.0	TI485
0.3	2N918	0.4	2N1415	0.6	2N2694	1.0	2N706B	1.0	TI490
0.3	2N960	0.4	2N1494	0.6	AD121	1.0	2N706B	1.2	2N706C
0.3	2N961	0.4	2N1494A	0.6	AC152	1.0	2N706M JAN	1.2	2N707A
0.3	2N961	.415	2N2207	0.6	AFY10	1.0	2N707	1.2	2N708
0.3	2N962	.45	2N1924	0.6	AFY11	1.0	2N707	1.2	2N708
0.3	2N962	.45	2N1925	0.6	2-OC83	1.0	2N709	1.2	2N708
0.3	2N963	.45	2N1926	0.6	2-OC84	1.0	2N726	1.2	2N716
0.3	2N963	.45	2N2430	.66	OC430K	1.0	2N727	1.2	2N738
0.3	2N964	.45	AFY18	.66	OC450K	1.0	2N735	1.2	2N739
0.3	2N964	0.5	2N381	.66	OC460K	1.0	2N736	1.2	2N740
0.3	2N964A	0.5	2N382	.66	OC463K	1.0	2N738	1.2	2N784A
0.3	2N965	0.5	2N383	.66	OC465K	1.0	2N739	1.2	2N784A/46
0.3	2N965	0.5	2N396	.66	OC466K	1.0	2N740	1.2	2N849
0.3	2N966	0.5	2N396A	.66	OC468K	1.0	2N743	1.2	2N850
0.3	2N966	0.5	2N650A	.66	OC469K	1.0	2N744	1.2	2N851
0.3	2N967	0.5	2N651A	.66	OC470K	1.0	2N753	1.2	2N852
0.3	2N967	0.5	2N652	.66	OC480K	1.0	2N753	1.2	2N869
0.3	2N968	0.5	2N707	.66	OC700	1.0	2N753	1.2	2N914
0.3	2N969	0.5	2N709	.66	OC700A	1.0	2N780	1.2	2N914

MAXIMUM P_C		MAXIMUM P_C		MAXIMUM P_C		MAXIMUM P_C		MAXIMUM P_C	
T_C	TRANSISTOR	T_C	TRANSISTOR	T_C	TRANSISTOR	T_C	TRANSISTOR	T_C	TRANSISTOR
1.2	2N914	1.5	2N997	2.0	2N912	2.6	BFY14	3.0	2N2217
1.2	2N915	1.7	2N698	2.0	2N914/46	2.6	BFY33	3.0	2N2218
1.2	2N915	1.75	2N2883	2.0	2N1092	2.6	BFY34	3.0	2N2219
1.2	2N916	1.75	2N2884	2.0	2N1131	2.6	BSY34	3.0	2N2223
1.2	2N919	1.8	2N718A	2.0	2N1132	2.6	BSY58	3.0	2N2223A
1.2	2N920	1.8	2N718A	2.0	2N1132	2.7	TF78/30	3.0	2N2279/51
1.2	2N921	1.8	2N719A	2.0	2N1132A	2.7	TF78/60	3.0	2N2330
1.2	2N922	1.8	2N735A	2.0	2N1132B	2.8	2N1335	3.0	2N2537
1.2	2N947	1.8	2N736B	2.0	2N1132B	2.8	2N1336	3.0	2N2538
1.2	2N995	1.8	2N739A	2.0	2N1252	2.8	2N1338	3.0	2N2800
1.2	2N996	1.8	2N740A	2.0	2N1253	2.8	2N1339	3.0	2N2801
1.2	2N1564	1.8	2N759B	2.0	2N1253	2.8	2N1340	3.0	2N2846
1.2	2N1565	1.8	2N760B	2.0	2N1253	2.8	2N1341	3.0	2N2848
1.2	2N1565	1.8	2N870	2.0	2N1409	2.8	2N1342	3.0	2N2863
1.2	2N1566	1.8	2N870	2.0	2N1410	2.8	2N1409A	3.0	2N2864
1.2	2N1566	1.8	2N871	2.0	2N1420	2.8	2N1410A	3.0	2N2904
1.2	2N1572	1.8	2N871	2.0	2N1420	2.8	2N1837A	3.0	2N2904A
1.2	2N1572	1.8	2N910	2.0	2N1507	2.8	2N2192	3.0	2N2905
1.2	2N1573	1.8	2N911	2.0	2N1564	2.8	2N2192	3.0	2N2905A
1.2	2N1573	1.8	2N912	2.0	2N1837	2.8	2N2192A	3.0	2N2951
1.2	2N1574	1.8	2N929A	2.0	2N1838	2.8	2N2192B	3.0	2N2962
1.2	2N1574	1.8	2N930A	2.0	2N1839	2.8	2N2193	3.0	2N2963
1.2	2N2368	1.8	2N956	2.0	2N1840	2.8	2N2193A	3.0	2N2964
1.2	2N2369	1.8	2N956	2.0	2N1958	2.8	2N2193B	3.0	2N2965
1.2	2N2369A	1.8	2N2220	2.0	2N1958A	2.8	2N2194	3.0	BSY51
1.2	2N2481	1.8	2N2220	2.0	2N1959	2.8	2N2194A	3.0	BSY52
1.2	2N2483	1.8	2N2221	2.0	2N1959A	2.8	2N2194B	3.0	BSY53
1.2	2N2484	1.8	2N2221	2.0	2N1972	2.8	2N2195	3.0	BSY54
1.2	2N2501	1.8	2N2222	2.0	2N1973	2.8	2N2195A	3.0	BSY55
1.2	2N2509	1.8	2N2222	2.0	2N1974	2.8	2N2195B	3.0	BSY56
1.2	2N2510	1.8	2N2331	2.0	2N1975	2.8	2N2243	3.0	MM486
1.2	2N2511	1.8	2N2463	2.0	2N1983	2.8	2N2243A	3.0	MM487
1.2	2N2618/46	1.8	2N2464	2.0	2N1984	2.8	2N2868	3.0	MM488
1.2	2N2651	1.8	2N2465	2.0	2N1985	2.8	PT850A	3.0	RT5001
1.2	2N2656	1.8	2N2466	2.0	2N1985	3.0	2N551	3.0	RT5002
1.2	2N2710	1.8	2N2520	2.0	2N1986	3.0	2N552	3.0	RT5003
1.2	2N2845	1.8	2N2539	2.0	2N1986	3.0	2N698	3.0	RT5004
1.2	2N2847	1.8	2N2540	2.0	2N1987	3.0	2N698	3.0	ST4201
1.2	2N2894	1.8	2N2540	2.0	2N1987	3.0	2N698	3.0	ST4202
1.2	2N3013	1.8	2N2645	2.0	2N1988	3.0	2N718A	3.0	ST4203
1.2	2N3014	1.8	2N2786	2.0	2N1988	3.0	2N720A	3.0	ST4202
1.2	FT1746	1.8	2N2837	2.0	2N1989	3.0	2N870	3.0	ZT1613
1.2	PT720	1.8	2N2838	2.0	2N1989	3.0	2N871	3.0	ZT1711
1.2	SP8400	1.8	2N2895	2.0	2N1990	3.0	2N910	3.1	11C1F1
1.2	SP8401	1.8	2N2896	2.0	2N1991	3.0	2N956	3.1	11C3F1
1.2	SP8402	1.8	2N2897	2.0	2N2086	3.0	2N1420A	3.1	11C5F1
1.25	2N978	1.8	2N2898	2.0	2N2087	3.0	2N1491	3.1	11C7F1
1.33	MHM1001	1.8	2N2899	2.0	2N2303	3.0	2N1492	3.1	11C10F1
1.4	2N3043	1.8	2N2900	2.0	2N2380	3.0	2N1493	3.1	11C11F1
1.4	2N3044	1.8	2N2906	2.0	2N2380A	3.0	2N1505	3.5	2N1506A
1.4	2N3045	1.8	2N2906A	2.0	2N2476	3.0	2N1505	3.5	2N1506A
1.4	2N3046	1.8	2N2907	2.0	2N2477	3.0	2N1505	3.5	2N1962
1.4	2N3047	1.8	2N2907A	2.0	2N2478	3.0	2N1506	3.5	2N1963
1.4	2N3048	1.8	2N2952	2.0	2N2479	3.0	2N1506	3.5	2N1964
1.4	2N3049	1.8	31N2	2.0	2N2618	3.0	2N1506	3.5	2N1965
1.4	2N3050	1.8	32N2	2.0	2N3081	3.0	2N1561	4.0	2N101/13
1.4	2N3051	1.8	34N2	2.0	2SB81	3.0	2N1562	4.0	2N102/13
1.4	2N3052	1.8	35N2	2.0	2SB82	3.0	2N1613	4.0	2N144/13
1.5	2N717	1.8	38N2	2.0	DT161	3.0	2N1613	4.0	2N497
1.5	2N717	1.8	39N2	2.0	PT850	3.0	2N1692	4.0	2N497
1.5	2N718	1.8	40N2	2.0	TI482	3.0	2N1693	4.0	2N497
1.5	2N718	1.8	41N2	2.0	TI483	3.0	2N1711	4.0	2N497A
1.5	2N719	1.8	42N2	2.0	TI484	3.0	2N1711	4.0	2N498
1.5	2N719	1.8	MM511	2.0	ZT2476	3.0	2N1711	4.0	2N498
1.5	2N720	1.8	MM512	2.0	ZT2477	3.0	2N1711	4.0	2N498
1.5	2N720	1.8	MM513	2.5	2N528	3.0	2N1889	4.0	2N498A
1.5	2N721	2.0	2N696	2.5	2N1990/46	3.0	2N1890	4.0	2N656
1.5	2N721	2.0	2N696	2.5	2N2410	3.0	2N1893	4.0	2N656
1.5	2N722	2.0	2N697	2.5	10B551	3.0	2N1893A	4.0	2N656
1.5	2N722	2.0	2N697	2.5	10B553	3.0	2N1973	4.0	2N656A
1.5	2N730	2.0	2N697	2.5	10B556	3.0	2N1974	4.0	2N657
1.5	2N731	2.0	2N698	2.5	10C573	3.0	2N1975	4.0	2N657
1.5	2N760	2.0	2N699	2.5	10C574	3.0	2N2008	4.0	2N657A
1.5	2N760A	2.0	2N699	2.6	BFY12	3.0	2N2049	4.0	2N1613
1.5	2N909	2.0	2N911	2.6	BFY13	3.0	2N2060	4.0	2N1711

MAXIMUM P_C		MAXIMUM P_C		MAXIMUM P_C		MAXIMUM P_C		MAXIMUM P_C	
T_C	TRANSISTOR	T_C	TRANSISTOR	T_C	TRANSISTOR	T_C	TRANSISTOR	T_C	TRANSISTOR
4.0	2N1893	4.5	AUY10	5.0	2N3110	10	2N540A	12.5	2N387
4.0	2N2443	5.0	2N339	5.0	7A30	10	2N540A	12.5	2N1072 USA
4.0	2N2459	5.0	2N339A	5.0	7A31	10	2N1068	12.5	2N3212
4.0	2N2460	5.0	2N340	5.0	7A32	10	2N1068	12.5	2N3213
4.0	2N2461	5.0	2N340A	5.0	11C1B1	10	2N1202	12.5	2N3214
4.0	2N2462	5.0	2N341	5.0	11C3B1	10	2N1202	12.5	2N3215
4.0	2N2515	5.0	2N341A	5.0	11C5B1	10	2N1203	13	2N538
4.0	2N2516	5.0	2N342	5.0	11C7B1	10	2N1203	13	2N538
4.0	2N2518	5.0	2N343	5.0	11C10B1	10	2N1261	13	2N538A
4.0	2N2519	5.0	2N545	5.0	11C11B1	10	2N1261	13	2N1709
4.0	2N2512	5.0	2N546	5.0	11C201B20	10	2N1262	13	2N1710
4.0	2N2522	5.0	2N547	5.0	11C203B20	10	2N1262	13	2N2781
4.0	2N2523	5.0	2N548	5.0	11C205B20	10	2N1263	13	2N2782
4.0	2N2524	5.0	2N549	5.0	11C207B20	10	2N1263	13	2N2783
4.0	2N2590	5.0	2N550	5.0	11C210B20	10	2N1501	13	2N2874
4.0	2N2591	5.0	2N699B	5.0	11C211B20	10	2N1501	13	2SC117
4.0	2N2592	5.0	2N1054	5.0	DT1110	10	2N1502	13	2SC118
4.0	2N2593	5.0	2N1067	5.0	DT1111	10	2N1502	13	2SC119
4.0	2N2595	5.0	2N1067	5.0	DT1112	10	2N1714	13	PT530A
4.0	2N2596	5.0	2N1116	5.0	DT1120	10	2N1715	13	PT600
4.0	2N2597	5.0	2N1117	5.0	DT1121	10	2N1716	13	PT601
4.0	2N2598	5.0	2N1206	5.0	DT1122	10	2N1717	13	PT613
4.0	2N2599	5.0	2N1207	5.0	H3	10	2N1718	13	PT692
4.0	2N2600	5.0	2N1228	5.0	H3A	10	2N1718	15	2N297
4.0	2N2601	5.0	2N1229	5.0	H4	10	2N1719	15	2N611
4.0	2N2602	5.0	2N1230	5.0	H4A	10	2N1719	15	2N1658
4.0	2N2603	5.0	2N1231	5.0	HA7531	10	2N1720	15	2N1659
4.0	2N2604	5.0	2N1232	5.0	HA7597	10	2N1720	15	2N2196
4.0	2N2605	5.0	2N1233	5.0	HA7598	10	2N1721	15	2N2197
4.0	2N3118	5.0	2N1234	5.0	HA7599	10	2N1721	15	2N2201
4.0	2N3119	5.0	2N1238	5.0	ST4150	10	2N2697	15	2N2202
4.0	2SB62	5.0	2N1239	5.0	ZT50	10	2N2698	15	2N2203
4.0	2SB63	5.0	2N1240	5.0	ZT91	10	2SB142	15	2N2204
4.0	2SB80	5.0	2N1241	5.0	ZT92	10	2SB143	15	2N2659
4.0	11B551	5.0	2N1242	5.0	ZT1479	10	2SB144	15	2N2660
4.0	11B552	5.0	2N1243	5.0	ZT1480	10	2SB145	15	2N2661
4.0	11B554	5.0	2N1244	5.0	ZT1481	10	2SB146	15	2N2662
4.0	11B555	5.0	2N1479	5.0	ZT1482	10	2T3030	15	2N2663
4.0	11B556	5.0	2N1480	5.0	ZT1700	10	2T3031	15	2N2664
4.0	11B560	5.0	2N1481	5.0	ZT2270	10	2T3032	15	2N2665
4.0	11C551	5.0	2N1482	5.5	2SB180	10	2T3033	15	2N2666
4.0	11C553	5.0	2N1700	5.5	2SB181	10	2T3041	15	2N2667
4.0	11C557	5.0	2N2017	6.0	2N1218	10	2T3042	15	2N2668
4.0	DT1510	5.0	2N2102	6.0	2N1645	10	2T3043	15	2N2669
4.0	DT1511	5.0	2N2106	6.0	2N2949	10	CA2D2	15	2N2670
4.0	DT1512	5.0	2N2107	6.0	2N2950	10	CB1F4	15	2N2983
4.0	DT1520	5.0	2N2108	6.5	2N2657	10	H45	15	2N2984
4.0	DT1521	5.0	2N2270	6.5	2N2658	10	MHT4501	15	2N2985
4.0	DT1522	5.0	2N2282	7.0	2N326	10	MHT4502	15	2N2986
4.0	FM870	5.0	2N2283	7.0	2N1183	10	MHT4511	15	2N2987
4.0	FM871	5.0	2N2284	7.0	2N1183A	10	MHT4512	15	2N2988
4.0	MHT4401	5.0	2N2297	7.0	2N1183B	10	MHT4513	15	2N2989
4.0	MHT4402	5.0	2N2350	7.0	2N1184	10	MHT4514	15	2N2990
4.0	MHT4411	5.0	2N2350A	7.0	2N1184A	10	MHT4515	15	2N2991
4.0	MHT4412	5.0	2N2351	7.0	2N1184B	10	MHT4516	15	2N2992
4.0	MHT4413	5.0	2N2351A	7.0	2SD122	10	MHT4517	15	2N2993
4.0	MHT4414	5.0	2N2352	7.0	2SD123	10	MHT4518	15	2N2994
4.0	MHT4415	5.0	2N2352A	7.0	7F1	10	MHT4519	15	2SA125
4.0	MHT4416	5.0	2N2353	7.0	7F2	10	MHT4551	15	2T205A
4.0	MHT4417	5.0	2N2353A	7.0	7F3	10	MHT4552	15	7B1
4.0	MHT4418	5.0	2N2364	7.0	7F4	10	MHT4553	15	7B2
4.0	MHT4419	5.0	2N2364A	8.0	2N2403	10	MHT4554	15	7C1
4.0	MHT4451	5.0	2N2405	8.0	2N2404	10	MHT4555	15	7C2
4.0	MHT4452	5.0	2N2467	8.75	2N122	10	MHT4556	15	7C3
4.0	MHT4453	5.0	2N2468	8.75	2N3262	10	MHT6001	15	7D1
4.0	MHT4454	5.0	2N2469	9.0	AD136	11	AD148	15	7D2
4.0	MHT4455	5.0	2N2726	9.0	AUY18	12	2N1841	15	7D3
4.0	MHT4456	5.0	2N2727	10	2N307	12	2SB140	15	7E1
4.0	OC30	5.0	2N2909	10	2N351	12	2SB141	15	7E2
4.0	TA6200	5.0	2N2939	10	2N539	12	2SB180A	15	7E3
4.0	XT1A	5.0	2N2940	10	2N539	12	2SB181A	15	7G1
4.0	XT1B	5.0	2N2941	10	2N539A	12	2SB361	15	7G2
4.0	XT1C	5.0	2N3036	10	2N539A	12	2T3011	15	7G3
4.0	XT1D	5.0	2N3053/40053	10	2N540	12	2T3021	15	7G4
4.5	AFZ23	5.0	2N3108	10	2N540	12.5	2N386	15	CTP1104

MAXIMUM P_C		MAXIMUM P_C		MAXIMUM P_C		MAXIMUM P_C		MAXIMUM P_C	
T_C	TRANSISTOR	T_C	TRANSISTOR	T_C	TRANSISTOR	T_C	TRANSISTOR	T_C	TRANSISTOR
15	CTP1108	25	2SB64	40	2N555	50	2N1162	60	2S8260
15	CTP1109	25	2SB69	40	2N1047	50	2N1163	60	2SC21
15	CTP1111	25	2SB149	40	2N1047A	50	2N1164	60	2SC101
15	TI486	25	2SB231	40	2N1047B	50	2N1165	60	3TX002
15	TI487	25	DPT657	40	2N1048	50	2N1166	60	DS-501
16	2N2835	25	H12	40	2N1048A	50	2N1167	60	DS-503
16.5	PADT50	25	H12A	40	2N1048B	50	2N1430	60	DS-504
17.5	2N3229	25	XH10	40	2N1049	50	2N1722	60	DS-505
20	2N156	25	ZT1483	40	2N1049A	50	2N1723	60	DS-506
20	2N158	25	ZT1484	40	2N1049B	50	2N1724	60	DS-520
20	2N1038	25	ZT1485	40	2N1050	50	2N1905	60	DS-525
20	2N1039	25	ZT1486	40	2N1050A	50	2N1906	60	H200E
20	2N1039 USN	30	2N301	40	2N1050B	50	2N2266	60	ST440
20	2N1040	30	2N301	40	2N1647	50	2N2267	60	ST450
20	2N1041	30	2N301A	40	2N1648	50	2N2268	62.5	2N2137
20	2N1041 USN	30	2N301A	40	2N1649	50	2N2269	62.5	2N2137A
20	2N1042	30	2N1046	40	2N1650	50	2N2636	62.5	2N2138
20	2N1043	30	2N1046A	40	2NI768	50	2N2637	62.5	2N2138A
20	2N1044	30	2N1046B	40	2N1769	50	2SB151	62.5	2N2139
20	2N1045	30	2N2150	40	2N2339	50	2SB152	62.5	2N2139A
20	2SB122	30	2N2151	40	2N2632	50	2SB275	62.5	2N2140
20	CK256	30	2N2869	40	2N2633	50	2SB276	62.5	2N2140A
20	CK258	30	2N2870	40	2N2634	50	2SB318	62.5	2N2141
20	CK311	30	AD130	40	2SB124	50	2SB319	62.5	2N2141A
20	CK312	30	AD131	40	2SB125	50	2SB320	62.5	2N2142
20	CK313	30	AD132	40	2SB148	50	2SC41	62.5	2N2142A
20	CK314	30	AD133	40	146T1	50	2SC42	62.5	2N2143
20	CK315	30	AD149	40	147T1	50	2SC43	62.5	2N2143A
20	H1	30	AD150	40	B1215	50	2SC44	62.5	2N2144
20	H2	30	ADY27	40	CTP1117	50	BUY12	62.5	2N2144A
20	LT-11	30	AUY19	40	CTP1133	50	BUY13	62.5	2N2145
20	LT-12	30	AUY20	40	CTP1135	50	XT2A	62.5	2N2145A
20	LT-13	30	AUY21	40	CTP1136	50	XT2B	62.5	2N2146
20	LT-14	30	AUY22	40	MHT6011	50	XT2C	62.5	2N2146A
20	LT-15	30	CST1739	40	MHT6012	50	XT2D	65	2N255
20	LT5165	30	CST1740	40	MHT6013	60	2N236A	65	2N554
21	2SD124	30	CST1741	40	MHT6014	60	2N236B	66	2SB131
21	2SD125	30	CST1742	40	MHT6015	60	2N418	66	2SB132
22.5	OC25	30	CST1743	40	MHT6016	60	2N420	70	2N174
23	2N158A	30	CST1744	45	2N257	60	2N420A	70	2N441
23	2N1504	30	CST1745	45	2N268	60	2N1073	70	2N1100
24	2N274	30	CST1746	45	2N301	60	2N1073A	70	2N1358
24	2-OC16	30	CTP1728	45	2N1120	60	2N1073B	70	SF.T264
24	OC19	30	CTP1729	45	3TX003	60	2N1136	70	SF.T265
25	2N156	30	CTP1730	45	3TX004	60	2N1136A	70	SF.T266
25	2N158	30	CTP1731	45	ADZ11	60	2N1136C	70	SF.T267
25	2N158A	30	CTP1732	45	ADZ12	60	2N1137	75	2N389 USN
25	2N234A	30	CTP1733	45	CDT1310	60	2N1137A	75	2N1146
25	2N235A	30	CTP1735	45	CDT1311	60	2N1137B	75	2N1146A
25	2N235B	30	CTP1736	45	CDT1312	60	2N1138	75	2N1146B
25	2N250	30	DT4110	45	CDT1313	60	2N1138A	75	2N1146C
25	2N251	30	DT4111	45	CDT1319	60	2N1138B	75	2N1147
25	2N1292	30	DT4112	45	CDT1320	60	2N1210	75	2N1147A
25	2N1294	30	DT4120	45	CDT1321	60	2N1211	75	2N1147B
25	2N1296	30	DT4121	45	CDT1322	60	2N1616	75	2N1147C
25	2N1321	30	OC20	45	SF.T213	60	2N1617	75	2N1487
25	2N1323	30	OC28	45	SF.T214	60	2N1617	75	2N1487
25	2N1325	30	OC29	45	SF.T238	60	2N1618	75	2N1488
25	2N1370	30	OC35	45	SF.T239	60	2N1618	75	2N1488
25	2N1483	30	OC36	45	SF.T240	60	2N1620	75	2N1489
25	2N1484	30	SF.T191	45	SF.T250	60	2N2212	75	2N1489
25	2N1485	30	SF.T212	48	2S841	60	2N2288	75	2N1490
25	2N1486	30	2SF.T212	48	2S842	60	2N2289	75	2N1490
25	2N1701	35	2N297A	50	2G210	60	2N2290	75	2N1511
25	2N2525	35	2N553	50	2N379	60	2N2291	75	2N1512
25	2N2887	35	2N553	50	2N380	60	2N2292	75	2N1513
25	2N2947	35	2N665	50	2N456	60	2N2293	75	2N1514
25	2N2948	35	2N1011	50	2N457	60	2N2294	75	2N1702
25	2N3021	35	2N1011 SIG.C	50	2N463 USN	60	2N2295	75	2N1703
25	2N3022	35	2SB296	50	2N561	60	2N2296	75	2N2101
25	2N3023	35	2SB300	50	2N1014	60	2SB235	75	2N2912
25	2N3024	35	2SB301	50	2N1069	60	2SB236	75	3N45
25	2N3025	35	AD140	50	2N1069	60	2SB237	75	3N46
25	2N3026	35	2-AD140	50	2N1070	60	2SB258	75	3N47
25	2N3054	35	H10	50	2N1070	60	2SB259	75	3N48

MAXIMUM P_C		MAXIMUM P_C		MAXIMUM P_C		MAXIMUM P_C		MAXIMUM P_C	
T_C	TRANSISTOR	T_C	TRANSISTOR	T_C	TRANSISTOR	T_C	TRANSISTOR	T_C	TRANSISTOR
75	AMF104	85	2N424A	90	2N1163A	90	2N1552	130	BDY11
75	AMF105	85	2N1208	90	2N1164	90	2N1552A	137	2N574
75	AMF106	85	2N1209	90	2N1164A	90	2N1553	137	2N574A
75	AMF115	85	2N1212	90	2N1165A	90	2N1553	137	2N575
75	AMF116	85	2N1616	90	2N1165 USN	90	2N1553A	137	2N575A
75	CTP1500	85	2N1617	90	2N1166A	90	2N1554	150	2N173
75	CTP1503	85	2N1618	90	2N1167A	90	2N1554	150	2N174
75	CTP1504	85	2N2526	90	2N1359	90	2N1554A	150	2N174A
75	CTP1508	85	2N2527	90	2N1359	90	2N1555	150	2N174 JAN
75	CTP1544	85	2N2528	90	2N1360	90	2N1555	150	2N277
75	CTP1545	85	2N2832	90	2N1360	90	2N1555A	150	2N278
75	CTP1552	85	2N2833	90	2N1362	90	2N1556	150	2N441
75	CTP1553	85	2N2834	90	2N1362	90	2N1556A	150	2N441
75	CTP3500	85	2S721	90	2N1363	90	2N1557	150	2N442
75	CTP3503	85	2S722	90	2N1363	90	2N1557	150	2N442
75	CTP3504	85	2S723	90	2N1364	90	2N1557A	150	2N443
75	CTP3508	85	2S724	90	2N1364	90	2N1558	150	2N443
75	CTP3544	85	AMF101	90	2N1365	90	2N1558	150	2N456A
75	CTP3545	85	AMF102	90	2N1365	90	2N1558A	150	2N456B
75	CTP3552	85	AMF103	90	2N1529	90	2N1559	150	2N457B
75	CTP3553	85	AMF107	90	2N1529A	90	2N1559	150	2N458A
75	DS-502	85	AMF108	90	2N1530	90	2N1559A	150	2N458B
75	ZT1487	85	AMF109	90	2N1530A	90	2N1560	150	2N511
75	ZT1488	85	AMF110	90	2N1531	90	2N1560A	150	2N511A
75	ZT1489	85	AMF111	90	2N1531A	94	3N49	150	2N511B
75	ZT1490	85	AMF112	90	2N1532	94	3N51	150	2N512
75	ZT1511	85	AMF113	90	2N1532A	94	3N52	150	2N512A
75	ZT1512	85	AMF114	90	2N1533	100	2N1651	150	2N512B
75	ZT1513	90	2N176	90	2N1534	100	2N1652	150	2N513
75	ZT1514	90	2N176	90	2N1534A	100	2N1653	150	2N513A
80	2G220	90	2N178	90	2N1535	100	2N1675	150	2N513B
80	2G221	90	2N250A	90	2N1535A	100	2N1751	150	2N514
80	2G222	90	2N251A	90	2N1536	100	2N2285	150	2N514A
80	2G223	90	2N297A	90	2N1536A	100	2N2286	150	2N514B
80	2G224	90	2N297A USA	90	2N1537	100	2N2287	150	2N1015
80	2G226	90	2N350A	90	2N1537A	100	2N2638	150	2N1015
80	2G227	90	2N351A	90	2N1538	100	2N2739	150	2N1015A
80	2G228	90	2N375	90	2N1539	100	2S024	150	2N1015A
80	2G229	90	2N375	90	2N1539	100	2S025	150	2N1015B
80	2G230	90	2N376A	90	2N1539A	100	2S026	150	2N1015B
80	2G231	90	2N618	90	2N1540	100	2SC102	150	2N1015C
80	2SB202	90	2N618	90	2N1540	100	151-04	150	2N1015C
80	2SB203	90	2N627	90	2N1540A	100	151-05	150	2N1015D
80	2SB204	90	2N628	90	2N1541	100	151-06	150	2N1015E
80	2SB205	90	2N629	90	2N1541	100	151-07	150	2N1016
80	2SB206	90	2N630	90	2N1541A	100	151-08	150	2N1016
80	2SB207	90	2N669	90	2N1542	100	151-09	150	2N1016A
80	2SB208	90	2N677	90	2N1542	100	151-10	150	2N1016A
80	2SB209	90	2N677A	90	2N1542A	100	152-04	150	2N1016B
80	2SB210	90	2N677B	90	2N1543	100	152-05	150	2N1016B
80	2SB211	90	2N677C	90	2N1543	100	152-06	150	2N1016C
80	2SB212	90	2N678	90	2N1544	100	152-07	150	2N1016C
80	2SB213	90	2N678A	90	2N1544	100	152-08	150	2N1016D
80	2SB214	90	2N678B	90	2N1544A	100	152-09	150	2N1016E
80	2SB331	90	2N678C	90	2N1545	100	152-10	150	2N1021
80	2SB332	90	2N1011	90	2N1545	100	ADY26	150	2N1021A
80	2SB333	90	2N1011 USA	90	2N1545A	115	2N3055	150	2N1022
80	2SB334	90	2N1031	90	2N1546	120	130-04	150	2N1022A
80	H10	90	2N1031A	90	2N1546	120	130-06	150	2N1099
80	H15A	90	2N1031B	90	2N1546A	120	130-08	150	2N1099
80	H15B	90	2N1031C	90	2N1547	120	130-10	150	2N1100
80	L10	90	2N1032	90	2N1547	120	156-04	150	2N1100
80	L15A	90	2N1032A	90	2N1547A	120	156-06	150	2N1358
80	L15B	90	2N1032B	90	2N1548	120	156-08	150	2N1358
80	U15A	90	2N1032C	90	2N1548	120	156-10	150	2N1358A
80	U15B	90	2N1120 USA	90	2N1549	125	2N1899	150	2N1358 JAN
82	2N389	90	2N1146	90	2N1549	125	2N1900	150	2N1358 USA
82	2N424	90	2N1146A	90	2N1549A	125	2N1901	150	2N1412
82	ST400	90	2N1146B	90	2N1550	125	2N1902	150	2N1412 USN
82	ST401	90	2N1146C	90	2N1550	125	2N1903	150	2N1539
82.5	2N3263	90	2N1147	90	2N1550A	125	2N1904	150	2N1540
82.5	2N3264	90	2N1147A	90	2N1551	125	2N3265	150	2N1541
85	2N389	90	2N1147B	90	2N1551	125	2N3266	150	2N1542
85	2N389A	90	2N1147C	90	2N1551A	125	PT900	150	2N1543
85	2N424	90	2N1162A	90	2N1552	130	BDY10	150	2N1907

150

250

MAXIMUM P_C		MAXIMUM P_C		MAXIMUM P_C		MAXIMUM P_C		MAXIMUM P_C	
T_C	TRANSISTOR	T_C	TRANSISTOR	T_C	TRANSISTOR	T_C	TRANSISTOR	T_C	TRANSISTOR
150	2N1908	200	2N2746	200	164-12				
150	2N1970	200	2N2747	200	164-14				
150	2N2015	200	2N2748	200	164-16				
150	2N2016	200	2N2751	200	164-18				
150	2N2226	200	2N2752	200	164-20				
150	2N2227	200	2N2753	250	2N1809				
150	2N2228	200	2N2754	250	2N1810				
150	2N2229	200	2N2757	250	2N1811				
150	2N2230	200	2N2758	250	2N1812				
150	2N2231	200	2N2759	250	2N1813				
150	2N2232	200	2N2760	250	2N1814				
150	2N2233	200	2N2761	250	2N1816				
150	2N2338	200	2N2763	250	2M1817				
170	2N2075	200	2N2764	250	2N1818				
170	2N2075A	200	2N2765	250	2N1819				
170	2N2076	200	2N2766	250	2N1823				
170	2N2076A	200	2N2769	250	2N1824				
170	2N2077	200	2N2770	250	2N1825				
170	2N2077A	200	2N2771	250	2N1826				
170	2N2078	200	2N2772	250	2N1830				
170	2N2078A	200	109UA	250	2N1831				
170	2N2079	200	109UB	250	2N1832				
170	2N2079A	200	109UC	250	2N1833				
170	2N2080	200	109UD	250	2N2109				
170	2N2080A	200	109WA	250	2N2110				
170	2N2081	200	109WB	250	2N2111				
170	2N2081A	200	109WC	250	2N2112				
170	2N2082	200	109WD	250	2N2113				
170	2N2082A	200	109XA	250	2N2114				
170	2N2152	200	109XB	250	2N2116				
170	2N2152A	200	109XC	250	2N2117				
170	2N2153	200	109XD	250	2N2118				
170	2N2153A	200	153-04	250	2N2119				
170	2N2154	200	153-05	250	2N2123				
170	2N2154A	200	153-06	250	2N2124				
170	2N2155	200	153-07	250	2N2125				
170	2N2155A	200	150-08	250	2N2126				
170	2N2156	200	153-09	250	2N2130				
170	2N2156A	200	153-10	250	2N2131				
170	2N2157	200	153-12	250	2N2132				
170	2N2157A	200	153-14	250	2N2133				
170	2N2158	200	153-16						
170	2N2158A	200	153-18						
170	2N2159	200	153-20						
170	2N2159A	200	154-04						
170	2N2357	200	154-05						
170	2N2358	200	154-06						
170	2N2359	200	154-07						
170	2N2490	200	154-08						
170	2N2491	200	154-09						
170	2N2492	200	154-10						
170	2N2493	200	154-12						
170	2N2728	200	154-14						
170	MP500	200	154-16						
170	MP500A	200	154-18						
170	MP501	200	154-20						
170	MP501A	200	163-04						
170	MP502	200	163-05						
170	MP502A	200	163-06						
170	MP503A	200	163-07						
170	MP504	200	163-08						
170	MP504A	200	163-09						
170	MP505	200	163-10						
170	MP505A	200	163-12						
170	MP506	200	163-14						
170	MP506A	200	163-16						
170	MP507	200	163-18						
170	MP507A	200	163-20						
187	2N1157	200	164-04						
187	2N1157A	200	164-05						
187	DA3F3	200	164-06						
200	2N2740	200	164-07						
200	2N2741	200	164-08						
200	2N2742	200	164-09						
200	2N2745	200	164-10						

MAX I_C	TRANSISTOR	MAX I_C	TRANSISTOR	MAX I_C	TRANSISTOR	MAX I_C	TRANSISTOR	MAX I_C	TRANSISTOR
.001	2N112	.005	2SA53	.008	OC56	.01	2N1639	.01	162T1
.001	2N113	.005	2SA57	.008	OC57	.01	2N1673	.01	501T1
.001	2N114	.005	2SA58	.008	OC58	.01	2N1699	.01	503T1
.001	2N130	.005	2SA60	.008	OC59	.01	2N1749	.01	504T1
.001	2N131	.005	2SA72	.008	OC60	.01	2N2084	.01	505T1
.001	2N132	.005	2SA73	.01	2G401	.01	2N2084 JAN	.01	508T1
.001	2N138	.005	2SA76	.01	2G402	.01	2N2089	.01	AF106
.001	2N138A	.005	2SA77	.01	2G414	.01	2N2090	.01	AF114
.001	CK725	.005	2SA92	.01	2G415	.01	2N2091	.01	AF114
.001	CK751	.005	2SA93	.01	2G416	.01	2N2092	.01	AF115
.001	CK760	.005	2SA229	.01	2G417	.01	2N2093	.01	AF115
.001	CK761	.005	2SA230	.01	2N63	.01	2N2494	.01	AF116
.001	CK762	.005	2SA236	.01	2N64	.01	2N2495	.01	AF116
.001	CK766	.005	2SA237	.01	2N65	.01	2N2654	.01	AF117
.001	CK766A	.005	2SA239	.01	2N106	.01	2N2671	.01	AF117
.002	2N175	.005	2SA240	.01	2N107	.01	2N2672	.01	AF121
.002	2N220	.005	2SB90	.01	2N247	.01	2N2873	.01	AF124
.002	2N1010	.005	2SB97	.01	2N247/33	.01	2N3049	.01	AF124
.002	2SA121	.005	2SB257	.01	2N274	.01	2N3050	.01	AF125
.002	2SA122	.005	2SC28	.01	2N370	.01	2N3051	.01	AF125
.002	2SA123	.005	2SC73	.01	2N370/33	.01	2S306	.01	AF126
.002	2SA124	.005	2SC75	.01	2N371	.01	2S307	.01	AF126
.002	2SA125	.005	2SC76	.01	2N371/33	.01	2S326	.01	AF127
.002	2SB39	.005	2SC78	.01	2N372	.01	2S327	.01	AF127
.002	2SB73	.005	2SC677	.01	2N372/33	.01	2SA30	.01	AFY12
.002	2SB302	.005	2T73	.01	2N373	.01	2SA31	.01	AFZ11
.002	2T201	.005	2T75	.01	2N374	.01	2SA43	.01	AFZ12
.002	2T203	.005	2T76	.01	2N384	.01	2SA80	.01	CK721
.002	2T205A	.005	2T77	.01	2N384/33	.01	2SA105	.01	CK722
.002	T-1305	.005	2T78	.01	2N544	.01	2SA106	.01	DS-41
.002	T-1306	.005	BFY22	.01	2N544/33	.01	2SA107	.01	DS-44
.003	2N232	.005	BFY23	.01	2N640	.01	2SA108	.01	ES3110
.003	2N376	.005	BFY24	.01	2N641	.01	2SA109	.01	ES3111
.003	L5113L	.005	BFY29	.01	2N642	.01	2SA110	.01	ES3112
.003	L5114A	.005	BFY30	.01	2N987	.01	2SA111	.01	ES3113
.003	L5123	.005	DS-25	.01	2N987	.01	2SA112	.01	ES3114
.003	L5125	.005	DS-34	.01	2N990	.01	2SA113	.01	ES3115
.003	L5126	.005	OC44	.01	2N991	.01	2SA114	.01	ES3116
.003	S3126	.005	OC44	.01	2N992	.01	2SA115	.01	ES3120
.003	S3151	.005	OC45	.01	2N993	.01	2SA116	.01	ES3121
.003	S3176	.005	OC45	.01	2N1014	.01	2SA117	.01	ES3122
.003	T-1010	.005	R186	.01	2N1023	.01	2SA118	.01	ES3123
.003	T-1011	.005	RD-525A	.01	2N1066	.01	2SA136	.01	ES3124
.003	T-1012	.005	SB100	.01	2N1177	.01	2SA137	.01	ES3125
.003	T-1033	.005	SB101	.01	2N1178	.01	2SA233	.01	ES3126
.003	T-1034	.005	SB102	.01	2N1179	.01	2SA234	.01	GET873
.003	T-1035	.005	SB103	.01	2N1180	.01	2SA235	.01	GET874
.003	T-1036	.005	SB200	.01	2N1224	.01	2SA254	.01	OC57
.003	T-1037	.005	ST1026	.01	2N1224 USA	.01	2SA255	.01	OC58
.003	T-1232	.005	ST1050	.01	2N1225	.01	2SA256	.01	OC59
.003	T-1233	.005	ST1051	.01	2N1225 USA	.01	2SA258	.01	OC60
.003	T-1300	.005	T-0038	.01	2N1226	.01	2SA259	.01	OC65
.003	T-1502	.005	T-0039	.01	2N1395	.01	2SA266	.01	OC66
.003	T-1503	.005	T-0040	.01	2N1396	.01	2SA267	.01	OC70
.005	2N128	.005	T-0041	.01	2N1396	.01	2SA268	.01	OC71
.005	2N129	.006	154T1	.01	2N1397	.01	2SA269	.01	OC73
.005	2N252	.006	155T1	.01	2N1425	.01	2SA270	.01	OC75
.005	2N253	.006	156T1	.01	2N1426	.01	2SA271	.01	OC81D
.005	2N254	.006	157T1	.01	2N1432	.01	2SA272	.01	OC169
.005	2N299	.007	AF139	.01	2N1515	.01	2SA273	.01	OC170
.005	2N300	.007	AFY16	.01	2N1516	.01	2SA274	.01	OC170
.005	2N310	.008	2A	.01	2N1517	.01	2SA275	.01	OC171
.005	2N344	.008	2B	.01	2N1517A	.01	2SA288	.01	OC171
.005	2N345	.008	2C	.01	2N1524	.01	2SA289	.01	PADT28
.005	2N346	.008	2D	.01	2N1525	.01	2SA290	.01	PADT30
.005	2N1247	.008	2E	.01	2N1526	.01	2SC191	.01	RD-2517A
.005	2N1248	.008	2F	.01	2N1527	.01	2SC192	.01	RD-2520A
.005	2N1750	.008	2G	.01	2N1631	.01	2SC193	.01	RD-2521A
.005	2SA28	.008	2N36	.01	2N1632	.01	2SC194	.01	SF.T162
.005	2SA37	.008	2N37	.01	2N1633	.01	2SC195	.01	SF.T163
.005	2SA38	.008	2N38	.01	2N1634	.01	2SC196	.01	SF.T316
.005	2SA39	.008	2N52	.01	2N1635	.01	2SC197	.01	SF.T317
.005	2SA49	.008	OC53	.01	2N1636	.01	159T1	.01	SF.T319
.005	2SA51	.008	OC54	.01	2N1637	.01	160T1	.01	SF.T320
.005	2SA52	.008	OC55	.01	2N1638	.01	161T1	.01	SF.T354

MAX I_C	TRANSISTOR	MAX I_C	TRANSISTOR	MAX I_C	TRANSISTOR	MAX I_C	TRANSISTOR	MAX I_C	TRANSISTOR
.01	SF.T357	.02	2SB120	.025	2N1278	.03	2N2641	.05	2N327A
.01	SF.T358	.02	2SB306	.025	2N1279	.03	2N2642	.05	2N328
.01	T-1594	.02	2SC70	.025	2N1417	.03	2N2643	.05	2N329
.01	T-1595	.02	2SC158	.025	2N1418	.03	2N2644	.05	2N330
.012	2N486	.02	2SC159	.025	2N2529	.03	2N2693	.05	2N393
.012	AF109	.02	2SC160	.025	2N2530	.03	2N2694	.05	2N393
.012	T34D	.02	3N34	.025	2N2531	.03	2N2717	.05	2N448
.012	T34E	.02	3N35	.025	2N2532	.03	2N2802	.05	2N495
.012	T34F	.02	DS-26	.025	2N2533	.03	2N2803	.05	2N496
.015	2N77	.02	GT-66	.025	2N2534	.03	2N2804	.05	2N499
.015	2N105	.02	T-0067	.025	2N2673	.03	2N2805	.05	2N499A
.015	2N139	.02	TI363	.025	2N2674	.03	2N2806	.05	2N500
.015	2N140	.02	TI364	.025	2N2675	.03	2N2807	.05	2N501
.015	2N218	.02	TI493	.025	2N2676	.03	2N3043	.05	2N501A
.015	2N219	.02	TI494	.025	2N2677	.03	2N3044	.05	2N501A
.015	2N240	.02	TI495	.025	2N2678	.03	2N3045	.05	2N502
.015	2N409	.02	TV44	.025	2N2715	.03	2N3046	.05	2N503
.015	2N410	.024	2SA50	.025	2N2716	.03	2N3047	.05	2N504
.015	2N411	.024	2SC11	.025	2S001	.03	2N3048	.05	2N559 USA
.015	2N412	.025	2G403	.025	2S003	.03	2SA246	.05	2N588
.015	2SA12	.025	2G413	.025	2S004	.03	2SA247	.05	2N647
.015	2SA15	.025	2N117	.025	2S006	.03	2SA276	.05	2N649
.015	2SA17	.025	2N117	.025	2S741	.03	2SB91	.05	2N695
.015	2SA18	.025	2N118	.025	2S742	.03	2SB261	.05	2N700
.015	2SA35	.025	2N118	.025	2S743	.03	2SB262	.05	2N700A
.015	2SA36	.025	2N118A	.025	2S744	.03	2SC16	.05	2N700A SIG.C
.02	2G101	.025	2N119	.025	2S745	.03	2SC17	.05	2N702
.02	2G102	.025	2N119	.025	2S746	.03	2SC17A	.05	2N703
.02	2N78	.025	2N120	.025	4C28	.03	2SC18	.05	2N705
.02	2N78A	.025	2N120	.025	4C29	.03	2SC166	.05	2N705
.02	2N168A	.025	2N332	.025	4C30	.03	2SC167	.05	2N705 USN
.02	2N169	.025	2N332	.025	4C31	.03	AF118	.05	2N706
.02	2N170	.025	2N332A	.025	4D20	.03	ASZ21	.05	2N706
.02	2N207	.025	2N333	.025	4D21	.03	PADT35	.05	2N706A
.02	2N207A	.025	2N333	.025	4D22	.03	SF.T186	.05	2N706A
.02	2N207B	.025	2N333A	.025	4D24	.035	2N405	.05	2N706B
.02	2N292	.025	2N334	.025	4D25	.035	2N406	.05	2N706B
.02	2N293	.025	2N334	.025	4D26	.035	BCZ10	.05	2N707
.02	2N318	.025	2N334A	.025	ASZ20	.035	BCZ12	.05	2N708
.02	2N337	.025	2N335	.025	SF.T171	.035	OC200	.05	2N708
.02	2N337	.025	2N335	.025	SF.T172	.035	TV-1	.05	2N710
.02	2N337A	.025	2N335A	.025	SF.T173	.04	2N110	.05	2N711
.02	2N338	.025	2N336	.025	SF.T174	.04	2N279	.05	2N726
.02	2N338	.025	2N336	.025	ST9	.04	2N280	.05	2N727
.02	2N338A	.025	2N336A	.025	ST10	.04	2N1094 USA	.05	2N735
.02	2N449	.025	2N470	.025	ST11	.04	2N1156/953	.05	2N736
.02	2N481	.025	2N471	.025	ST12	.04	2N1195	.05	2N738
.02	2N482	.025	2N472	.025	ST13	.04	2N1195 JAN	.05	2N739
.02	2N482	.025	2N472A	.025	ST14	.04	2S733	.05	2N740
.02	2N483	.025	2N473	.025	ST29	.04	2SA150	.05	2N753
.02	2N483	.025	2N474	.025	ST30	.04	2SA277	.05	2N780
.02	2N484	.025	2N475	.025	ST31	.04	2SA278	.05	2N839
.02	2N485	.025	2N475A	.025	ST32	.04	2SA304	.05	2N840
.02	2N535	.025	2N476	.025	ST33	.04	2SA305	.05	2N841
.02	2N535A	.025	2N477	.025	ST34	.04	2SB290	.05	2N842
.02	2N535B	.025	2N478	.025	ST40	.04	2SC13	.05	2N843
.02	2N591	.025	2N479	.025	ST41	.04	2SC14	.05	2N844
.02	2N1086	.025	2N480	.025	ST42	.04	OC70	.05	2N849
.02	2N1086A	.025	2N480A	.025	ST44	.04	OC71	.05	2N850
.02	2N1087	.025	2N534	.025	ST3030	.04	OC75	.05	2N858
.02	2N1121	.025	2N541	.025	ST3031	.04	PADT40	.05	2N859
.02	2N1510	.025	2N542	.025	TI492	.05	2G103	.05	2N860
.02	2N2042	.025	2N543	.03	2N536	.05	2G104	.05	2N861
.02	2N2043	.025	2N543A	.03	2N929	.05	2N43A	.05	2N862
.02	2N2415	.025	2N1149	.03	2N929	.05	2N44	.05	2N863
.02	2N2416	.025	2N1150	.03	2N930	.05	2N79	.05	2N864
.02	2N2857	.025	2N1150/904	.03	2N2188	.05	2N104	.05	2N918
.02	2N2998	.025	2N1151	.03	2N2189	.05	2N133	.05	2N935
.02	2N2999	.025	2N1151/904A	.03	2N2190	.05	2N135	.05	2N936
.02	2S005	.025	2N1152	.03	2N2191	.05	2N136	.05	2N937
.02	2S014	.025	2N1153	.03	2N2207	.05	2N137	.05	2N938
.02	2S701	.025	2N1153/910	.03	2N2387	.05	2N206	.05	2N939
.02	2S702	.025	2N1217	.03	2N2388	.05	2N215	.05	2N940
.02	2S703	.025	2N1276	.03	2N2639	.05	2N265	.05	2N941
.02	2SA64	.025	2N1277	.03	2N2640	.05	2N327	.05	2N942

MAX I_C	TRANSISTOR	MAX I_C	TRANSISTOR	MAX I_C	TRANSISTOR	MAX I_C	TRANSISTOR	MAX I_C	TRANSISTOR
.05	2N943	.05	2N2162	.05	2SC172	.05	OC703A	.06	2N1130
.05	2N944	.05	2N2163	.05	2SD33	.05	OC704	.06	2N1154/951
.05	2N945	.05	2N2164	.05	2SD43	.05	OC740	.06	2SD37
.05	2N946	.05	2N2165	.05	2SD44	.05	OC740M	.06	4C43
.05	2N1034	.05	2N2166	.05	2SD64	.05	OC740Q	.06	T-1505
.05	2N1035	.05	2N2167	.05	2SD65	.05	OC742	.06	TF78/30
.05	2N1036	.05	2N2175	.05	2SD66	.05	OC742M	.06	TF78/60
.05	2N1037	.05	2N2176	.05	2T64	.05	OC742Q	.06	TI480
.05	2N1039	.05	2N2177	.05	2T65	.05	PADT51	.06	TI481
.05	2N1058	.05	2N2178	.05	2T66	.05	SA-310	.06	TI496
.05	2N1060	.05	2N2185	.05	ACY23	.05	SA-311	.07	2N109
.05	2N1118	.05	2N2274	.05	ACY32	.05	SA-312	.07	2N217
.05	2N1118A	.05	2N2276	.05	ASY67	.05	SA-313	.07	2N407
.05	2N1119	.05	2N2278	.05	ASZ21	.05	SA-314	.07	2N408
.05	2N1122	.05	2N2280	.05	BCZ11	.05	SA-315	.07	2SB66
.05	2N1122	.05	2N2360	.05	BFY10	.05	SA-316	.07	2SB75
.05	2N1122A	.05	2N2361	.05	BFY11	.05	SA-410	.07	2SB75A
.05	2N1122A	.05	2N2362	.05	BSY10	.05	SA-411	.07	2SB77
.05	2N1155/952	.05	2N2363	.05	BSY11	.05	SA-412	.07	2SB77A
.05	2N1405	.05	2N2377	.05	CK790	.05	SA-413	.07	AFY10
.05	2N1406	.05	2N2378	.05	CK791	.05	SA-414	.07	AFY11
.05	2N1407	.05	2N2398	.05	CK793	.05	SA-415	.075	2N167
.05	2N1411	.05	2N2399	.05	CK794	.05	SA-416	.075	2N167A
.05	2N1427	.05	2N2424	.05	GA-52829	.05	SYL2120	.075	2N270
.05	2N1429	.05	2N2425	.05	GA-53149	.05	SYL2189	.075	2N1198
.05	2N1429	.05	2N2451	.05	GA-53242	.05	T-1166	0.1	2G110
.05	2N1478	.05	2N2483	.05	GT-14H	.05	T-1461	0.1	2N34
.05	2N1491	.05	2N2484	.05	GT-20H	.05	T-1504	0.1	2N35
.05	2N1492	.05	2N2613	.05	GT-81H	.05	T-1542	0.1	2N35
.05	2N1493	.05	2N2614	.05	GT-210H	.05	T-1559	0.1	2N94
.05	2N1500	.05	2N2616	.05	GT-760	.05	T-1593	0.1	2N94A
.05	2N1564	.05	2N2617	.05	GT-761	.05	T-1596	0.1	2N106
.05	2N1564	.05	2N2692	.05	GT-762	.05	T-1598	0.1	2N130A
.05	2N1565	.05	2N2729	.05	GT-763	.05	T-1599	0.1	2N131A
.05	2N1566	.05	2N2865	.05	MF1161	.05	T-1731	0.1	2N132A
.05	2N1566	.05	2N2968	.05	MF1162	.05	T-1732	0.1	2N133A
.05	2N1572	.05	2N2969	.05	MF1163	.05	T-1877	0.1	2N193
.05	2N1573	.05	2N2970	.05	MF1164	.05	T-2038	0.1	2N194A
.05	2N1574	.05	2N2971	.05	MM1151	.05	T-2039	0.1	2N212
.05	2N1643	.05	2N2996	.05	MM1152	.05	T-2040	0.1	2N213
.05	2N1646	.05	2N2997	.05	MM1153	.05	T-2091	0.1	2N213A
.05	2N1676	.05	2S101	.05	MM1154	.05	T-2357	0.1	2N214
.05	2N1677	.05	2S102	.05	M1X	.05	TIX316	0.1	2N228
.05	2N1726	.05	2S103	.05	OC201	.05	ZT20	0.1	2N229
.05	2N1727	.05	2S104	.05	OC203	.05	ZT21	0.1	2N233
.05	2N1728	.05	2S321	.05	OC430	.05	ZT22	0.1	2N233A
.05	2N1742	.05	2S322	.05	OC430K	.05	ZT23	0.1	2N272
.05	2N1743	.05	2S323	.05	OC440	.05	ZT24	0.1	2N273
.05	2N1744	.05	2S324	.05	OC440K	.05	ZT40	0.1	2N322
.05	2N1745	.05	2S325	.05	OC450	.05	ZT41	0.1	2N323
.05	2N1746	.05	2S731	.05	OC450K	.05	ZT42	0.1	2N324
.05	2N1748	.05	2S732	.05	OC460	.05	ZT43	0.1	2N327A
.05	2N1748A	.05	2SA40	.05	OC460K	.05	ZT44	0.1	2N327A
.05	2N1747	.05	2SA74	.05	OC463	.05	ZT202	0.1	2N327B
.05	2N1752	.05	2SA75	.05	OC463K	.05	ZT203	0.1	2N328A
.05	2N1785	.05	2SA127	.05	OC465	.05	ZT204	0.1	2N328B
.05	2N1786	.05	2SA175	.05	OC465K	.05	ZT402	0.1	2N329A
.05	2N1787	.05	2SB37	.05	OC466	.05	ZT403	0.1	2N329B
.05	2N1788	.05	2SB43	.05	OC466K	.05	ZT404	0.1	2N330A
.05	2N1789	.05	2SB44	.05	OC468	.06	2N223	0.1	2N330A
.05	2N1790	.05	2SB46	.05	OC468K	.06	2N226	0.1	2N339
.05	2N1864	.05	2SB47	.05	OC469	.06	2N243	0.1	2N339A
.05	2N1865	.05	2SB54	.05	OC469K	.06	2N244	0.1	2N340
.05	2N1866	.05	2SB55	.05	OC470	.06	2N339	0.1	2N340A
.05	2N1867	.05	2SB56	.05	OC470K	.06	2N340	0.1	2N341
.05	2N1868	.05	2SB61	.05	OC480	.06	2N341	0.1	2N341A
.05	2N1917	.05	2SB94	.05	OC480K	.06	2N343	0.1	2N342
.05	2N1917	.05	2SB321	.05	OC700	.06	2N342A	0.1	2N343
.05	2N1918	.05	2SB322	.05	OC700A	.06	2N343	0.1	2N398
.05	2N1918	.05	2SB323	.05	OC700B	.06	2N1124	0.1	2N404
.05	2N1919	.05	2SC16A	.05	OC701	.06	2N1125	0.1	2N404
.05	2N1920	.05	2SC103	.05	OC702	.06	2N1126	0.1	2N404
.05	2N1921	.05	2SC104	.05	OC702A	.06	2N1127	0.1	2N422
.05	2N1922	.05	2SC170	.05	OC702B	.06	2N1128	0.1	2N464
.05	2N1992	.05	2SC171	.05	OC703	.06	2N1129	0.1	2N465

MAX I_C	TRANSISTOR	MAX I_C	TRANSISTOR	MAX I_C	TRANSISTOR	MAX I_C	TRANSISTOR	MAX I_C	TRANSISTOR
0.1	2N465 USA	0.1	2N961	0.1	2N1232	0.1	2N2412	0.1	AFZ23
0.1	2N466	0.1	2N961	0.1	2N1233	0.1	2N2424	0.1	ASZ30
0.1	2N466 JAN	0.1	2N962	0.1	2N1234	0.1	2N2425	0.1	BCY30
0.1	2N467	0.1	2N962	0.1	2N1251	0.1	2N2428	0.1	BCY31
0.1	2N467 USA	0.1	2N963	0.1	2N1275	0.1	2N2429	0.1	BCY32
0.1	2N502A	0.1	2N963	0.1	2N1300	0.1	2N2432	0.1	BCY33
0.1	2N508	0.1	2N964	0.1	2N1301	0.1	2N2482	0.1	BCY34
0.1	2N519	0.1	2N964	0.1	2N1429	0.1	2N2487	0.1	BCZ11
0.1	2N537 USA	0.1	2N964A	0.1	2N1431	0.1	2N2488	0.1	C101
0.1	2N560 JAN	0.1	2N965	0.1	2N1439	0.1	2N2489	0.1	C102
0.1	2N581	0.1	2N965	0.1	2N1440	0.1	2N2942	0.1	C103
0.1	2N582	0.1	2N966	0.1	2N1441	0.1	2N2493	0.1	C106
0.1	2N582	0.1	2N966	0.1	2N1442	0.1	2N2635	0.1	C118
0.1	2N583	0.1	2N967	0.1	2N1443	0.1	2N2711	0.1	C119
0.1	2N584	0.1	2N967	0.1	2N1450	0.1	2N2712	0.1	C201
0.1	2N591/5	0.1	2N976	0.1	2N1469	0.1	2N2795	0.1	C202
0.1	2N619	0.1	2N979	0.1	2N1469	0.1	2N2796	0.1	C301
0.1	2N620	0.1	2N980	0.1	2N1474	0.1	2N2797	0.1	C302
0.1	2N621	0.1	2N982	0.1	2N1474	0.1	2N2798	0.1	C401
0.1	2N622	0.1	2N983	0.1	2N1474A	0.1	2N2799	0.1	C402
0.1	2N643	0.1	2N984	0.1	2N1474A	0.1	2N2861	0.1	CK22
0.1	2N644	0.1	2N1000	0.1	2N1474A	0.1	2N2862	0.1	CK25
0.1	2N644	0.1	2N1024	0.1	2N1475	0.1	2N2942	0.1	CK64
0.1	2N645	0.1	2N1024	0.1	2N1475	0.1	2N2955	0.1	CK65
0.1	2N645	0.1	2N1025	0.1	2N1475	0.1	2N2956	0.1	CK66
0.1	2N707	0.1	2N1026	0.1	2N1476	0.1	2N2957	0.1	CK67
0.1	2N707A	0.1	2N1026A	0.1	2N1476	0.1	2S301	0.1	CK754
0.1	2N711A	0.1	2N1027	0.1	2N1477	0.1	2S301	0.1	CK768
0.1	2N736A	0.1	2N1027	0.1	2N1477	0.1	2S302	0.1	CK882
0.1	2N741	0.1	2N1028	0.1	2N1499A	0.1	2S302	0.1	CK888
0.1	2N741A	0.1	2N1028	0.1	2N1499B	0.1	2S303	0.1	DS-46
0.1	2N742	0.1	2N1034	0.1	2N1566A	0.1	2S303	0.1	GET880
0.1	2N742A	0.1	2N1035	0.1	2N1605A	0.1	2S304	0.1	GET887
0.1	2N753	0.1	2N1036	0.1	2N1623	0.1	2S304	0.1	GET888
0.1	2N754	0.1	2N1037	0.1	2N1640	0.1	2S305	0.1	GET889
0.1	2N755	0.1	2N1037	0.1	2N1641	0.1	2S305	0.1	GET890
0.1	2N760	0.1	2N1051	0.1	2N1642	0.1	2SA40	0.1	GT-14
0.1	2N760A	0.1	2N1059	0.1	2N1643	0.1	2SA211	0.1	GT-20
0.1	2N768	0.1	2N1101	0.1	2N1655	0.1	2SA212	0.1	GT-34
0.1	2N769	0.1	2N1102	0.1	2N1656	0.1	2SA217	0.1	GT-35
0.1	2N779A	0.1	2N1118	0.1	2N1683	0.1	2SB48	0.1	GT-74
0.1	2N794	0.1	2N1118A	0.1	2N1754	0.1	2SB49	0.1	GT-75
0.1	2N795	0.1	2N1119	0.1	2N1781	0.1	2SB50	0.1	GT-81
0.1	2N796	0.1	2N1141	0.1	2N1853	0.1	2SB65	0.1	GT-82
0.1	2N827	0.1	2N1142	0.1	2N1854	0.1	2SB68	0.1	GT-109
0.1	2N838	0.1	2N1143	0.1	2N1917	0.1	2SB121	0.1	GT-222
0.1	2N845	0.1	2N1144	0.1	2N1918	0.1	2SB168	0.1	GT-759R
0.1	2N846A	0.1	2N1145	0.1	2N1919	0.1	2SB169	0.1	GT-760R
0.1	2N858	0.1	2N1158	0.1	2M1920	0.1	2SB265	0.1	GT-761R
0.1	2N859	0.1	2N1158A	0.1	2N1921	0.1	2SC74	0.1	GT-762R
0.1	2N860	0.1	2N1206	0.1	2N1922	0.1	2SC150	0.1	GT-792
0.1	2N861	0.1	2N1207	0.1	2N2004	0.1	2SC151	0.1	OC46
0.1	2N862	0.1	2N1213	0.1	2N2004	0.1	2SC152	0.1	OC200
0.1	2N863	0.1	2N1214	0.1	2N2048	0.1	2SC153	0.1	OC201
0.1	2N864	0.1	2N1215	0.1	2N2168	0.1	2SD61	0.1	OC202
0.1	2N865	0.1	2N1216	0.1	2N2169	0.1	2SD62	0.1	SF.T184
0.1	2N923	0.1	2N1219	0.1	2N2170	0.1	2SD63	0.1	SF.T237
0.1	2N924	0.1	2N1219	0.1	2N2185	0.1	2SD75	0.1	SF.T306
0.1	2N925	0.1	2N1219	0.1	2N2256	0.1	2SD75A	0.1	SF.T307
0.1	2N926	0.1	2N1220	0.1	2N2257	0.1	2SD77	0.1	SF.T308
0.1	2N927	0.1	2N1220	0.1	2N2258	0.1	2T69	0.1	SF.T337
0.1	2N928	0.1	2N1220	0.1	2N2259	0.1	2T311	0.1	ST1504
0.1	2N935	0.1	2B1221	0.1	2N2273	0.1	2T312	0.1	ST1505
0.1	2N936	0.1	2N1221	0.1	2N2274	0.1	2T313	0.1	ST4201
0.1	2N937	0.1	2N1221	0.1	2N2276	0.1	2T314	0.1	SYL1750
0.1	2N938	0.1	2N1222	0.1	2N2278	0.1	2T315	0.1	T-2122
0.1	2N939	0.1	2N1222	0.1	2N2280	0.1	2T681	0.1	X-78
0.1	2N940	0.1	2N1222	0.1	2N2370	0.1	2T682	.12	SF.T315
0.1	2N941	0.1	2N1223	0.1	2N2371	0.1	101A	.12	SF.T357P
0.1	2N943	0.1	2N1223	0.1	2N2372	0.1	101B	.125	2N123
0.1	2N944	0.1	2N1223	0.1	2N2373	0.1	101M	.125	2N123/5
0.1	2N945	0.1	2N1228	0.1	2N2400	0.1	201A	.125	2N123A
0.1	2N946	0.1	2N1229	0.1	2N2401	0.1	201B	.125	2N450
0.1	2N955	0.1	2N1230	0.1	2N2402	0.1	201M	.125	2N1115
0.1	2N960	0.1	2N1231	0.1	2N2411	0.1	AFY18	.14	2N122

MAX I_C	TRANSISTOR	MAX I_C	TRANSISTOR	MAX I_C	TRANSISTOR	MAX I_C	TRANSISTOR	MAX I_C	TRANSISTOR
.15	2N224	0.2	2N312	0.2	2N783	0.2	2S712	0.2	ZT2205
.15	2N227	0.2	2N319	0.2	2N784	0.2	2SA65	0.2	ZT2206
.15	2N404A	0.2	2N320	0.2	2N784/51	0.2	2SA66	.22	2N919
.15	2N428	0.2	2N321	0.2	2N784A	0.2	2SA67	.25	2N461 USAF
.15	2N705	0.2	2N321	0.2	2N784A/46	0.2	2SA248	.25	2N586
.15	2N711A	0.2	2N322	0.2	2N828	0.2	2SA282	.25	2N653
.15	2N797	0.2	2N323	0.2	2N828	0.2	2SA283	.25	2N653
.15	2N955A	0.2	2N324	0.2	2N829	0.2	2SA284	.25	2N654
.15	2N1024	0.2	2N331	0.2	2N834	0.2	2SB52	.25	2N655
.15	2N1025	0.2	2N331 JAN	0.2	2N834	0.2	2SB51	.25	2N1444
.15	2N1273	0.2	2N331M	0.2	2N835	0.2	2SC71	.25	2N1561
.15	2N1274	0.2	2N377	0.2	2N835	0.2	2SC72	.25	2N1562
.15	2N1370	0.2	2N377A	0.2	2N851	0.2	2SC89	.25	2N2951
.15	2N1371	0.2	2N385	0.2	2N852	0.2	2SC179	.25	2N2952
.15	2N2786	0.2	2N385A	0.2	2N921	0.2	2T321	.25	2SB53
.15	2N2953	0.2	2N388	0.2	2N922	0.2	2T322	.25	2SB189
.15	2SB34	0.2	2N388	0.2	2N985	0.2	2T323	.25	2SC12
.15	2SB38	0.2	2N388A	0.2	2N1097	0.2	2T324	.25	2T383
.15	2SB67	0.2	2N388A	0.2	2N1098	0.2	64T1	.25	AR-2
.15	2SB67A	0.2	2N388 USN	0.2	2N1114	0.2	65T1	.25	DT161
.15	2SB89	0.2	2N394	0.2	2N1173	0.2	AC151	.25	HA7597
.15	2SB263	0.2	2N395	0.2	2N1174	0.2	AC162	.25	HA7598
.15	2SB291	0.2	2N395	0.2	2N1175	0.2	AC163	.25	HA7599
.15	2SB292	0.2	2N396	0.2	2N1191	0.2	ASY26	.25	OC72
.15	2SB292A	0.2	2N396	0.2	2N1192	0.2	ASY27	.25	2-OC72
.15	2SD191	0.2	2N396A	0.2	2N1193	0.2	ASY28	.25	OC76
.15	2SD192	0.2	2N396A	0.2	2N1194	0.2	ASY29	.25	OC77
.15	AR-101	0.2	2N396A USN	0.2	2N1299	0.2	BSY18	.25	OC139
.15	AR-102	0.2	2N397	0.2	2N1372	0.2	BSY62	.25	OC140
.15	BFY14	0.2	2N397	0.2	2N1373	0.2	BSY63	.25	OC141
.15	CK870	0.2	2N398	0.2	2N1374	0.2	CK13	.25	SF.T221
.15	CK871	0.2	2N398A	0.2	2N1375	0.2	CK14	.25	SF.T222
.15	GET871	0.2	2N398B	0.2	2N1376	0.2	CK16	.25	SF.T223
.15	GET872	0.2	2N398B	0.2	2N1377	0.2	CK17	.25	SF.T226
.15	GET875	0.2	2N398 USN	0.2	2N1378	0.2	GET881	.25	SF.T227
.15	L5022A	0.2	2N404	0.2	2N1379	0.2	GET882	.25	SF.T228
.15	L5024A	0.2	2N404A	0.2	2N1380	0.2	GET885	.25	SF.T229
.15	L5025A	0.2	2N404 USAF	0.2	2N1381	0.2	GT-34N	.25	SF.T321
.15	OC41	0.2	2N413	0.2	2N1382	0.2	GT-34S	.25	SF.T322
.15	OC42	0.2	2N413	0.2	2N1383	0.2	GT-81HS	.25	SF.T323
.15	OC43	0.2	2N413A	0.2	2N1413	0.2	GT-83	.25	ZT83
.15	SF.T251	0.2	2N414	0.2	2N1414	0.2	GT-87	.25	ZT84
.15	SF.T252	0.2	2N414	0.2	2N1415	0.2	GT-88	.25	ZT86
.15	SF.T253	0.2	2N414A	0.2	2N1439	0.2	GT-122	0.3	2G301
.15	SF.T351	0.2	2N416	0.2	2N1440	0.2	GT-123	0.3	2G302
.15	SF.T352	0.2	2N416	0.2	2N1441	0.2	GT-153	0.3	2G303
.15	SF.T353	0.2	2N417	0.2	2N1442	0.2	GT-167	0.3	2G304
.15	T-1001	0.2	2N417	0.2	2N1443	0.2	GT-229	0.3	2G306
.15	T-1042	0.2	2N428 JAN	0.2	2N1605	0.2	GT-269	0.3	2G308
.15	T-1044	0.2	2N462	0.2	2N1605A	0.2	GT-758	0.3	2G309
.15	T-1046	0.2	2N484	0.2	2N1684	0.2	GT-759	0.3	2G371
.16	2N328A	0.2	2N501/18	0.2	2N1708	0.2	GT-764	0.3	2G374
.16	2N1034	0.2	2N508	0.2	2N1960	0.2	GT-903	0.3	2G376
.16	2N1035	0.2	2N519	0.2	2N1961	0.2	GT-904	0.3	2G377
.16	2N1036	0.2	2N520	0.2	2N1962	0.2	GT-905	0.3	2N43
.16	2N1037	0.2	2N520	0.2	2N1963	0.2	GT-947	0.3	2N43A
.16	2N1275	0.2	2N521	0.2	2N2042A	0.2	GT-948	0.3	2N44
0.2	2N111A	0.2	2N522	0.2	2N2043A	0.2	GT-949	0.3	2N594
0.2	2N112A	0.2	2N523	0.2	2N2205	0.2	MA112	0.3	2N595
0.2	2N186A	0.2	2N551	0.2	2N2206	0.2	MA113	0.3	2N596
0.2	2N187A	0.2	2N552	0.2	2N2369A	0.2	MA114	0.3	2N634
0.2	2N188A	0.2	2N556	0.2	2N2397	0.2	MA115	0.3	2N634A
0.2	2N189	0.2	2N557	0.2	2N2413	0.2	MA116	0.3	2N635
0.2	2N190	0.2	2N558	0.2	2N2455	0.2	MA117	0.3	2N635A
0.2	2N191	0.2	2N585	0.2	2N2456	0.2	MA286	0.3	2N636
0.2	2N192	0.2	2N587	0.2	2N2656	0.2	MA287	0.3	2N636A
0.2	2N217A	0.2	2N696	0.2	2N2706	0.2	MA288	0.3	2N696
0.2	2N230	0.2	2N697	0.2	2N2713	0.2	OC74	0.3	2N930
0.2	2N241	0.2	2N706	0.2	2N2714	0.2	OC79	0.3	2N997
0.2	2N241A	0.2	2N706C	0.2	2N3033	0.2	OC81	0.3	2N1008
0.2	2N271	0.2	2N708	0.2	2N3034	0.2	OC139	0.3	2N1008
0.2	2N281	0.2	2N743	0.2	2N3035	0.2	OC140	0.3	2N1008A
0.2	2N284	0.2	2N744	0.2	2N3052	0.2	OC141	0.3	2N1008A
0.2	2N284A	0.2	2N781	0.2	2S131	0.2	PT720	0.3	2N1008B
0.2	2N291	0.2	2N782	0.2	2S711	0.2	ZT1708	0.3	2N1008B

0.3

0.6

MAX I_C	TRANSISTOR	MAX I_C	TRANSISTOR	MAX I_C	TRANSISTOR	MAX I_C	TRANSISTOR	MAX I_C	TRANSISTOR
0.3	2N1008B M	.35	H3A	0.4	2SB200	0.5	2N1204	0.5	2SB180
0.3	2N1056	0.4	2N359	0.4	2SB201	0.5	2N1204A	0.5	2SB180A
0.3	2N1057	0.4	2N360	0.4	2SB202	0.5	2N1384	0.5	2SB181
0.3	2N1057	0.4	2N361	0.4	2SC19	0.5	2N1409	0.5	2SB181A
0.3	2N1176	0.4	2N362	0.4	2SC20	0.5	2N1409A	0.5	2SB370
0.3	2N1176A	0.4	2N363	0.4	2SC90	0.5	2N1410	0.5	2SC116
0.3	2N1176B	0.4	2N381	0.4	2SC91	0.5	2N1410A	0.5	BCY38
0.3	2N1176B	0.4	2N382	0.4	2SC180	0.5	2N1413	0.5	BCY39
0.3	2N1302	0.4	2N383	0.4	2SC181	0.5	2N1413	0.5	BCY40
0.3	2N1303	0.4	2N416	0.4	2SD193	0.5	2N1414	0.5	BFY12
0.3	2N1303	0.4	2N417	0.4	2SD194	0.5	2N1415	0.5	BFY33
0.3	2N1304	0.4	2N425	0.4	BCY10	0.5	2N1494	0.5	BFY34
0.3	2N1305	0.4	2N425	0.4	BCY11	0.5	2N1494	0.5	CK727
0.3	2N1305	0.4	2N426	0.4	BCY12	0.5	2N1494A	0.5	DT1110
0.3	2N1306	0.4	2N426	0.4	CK25	0.5	2N1495	0.5	DT1111
0.3	2N1307	0.4	2N427	0.4	CK27	0.5	2N1496	0.5	DT1112
0.3	2N1307	0.4	2N427	0.4	CK28	0.5	2N1496	0.5	DT1120
0.3	2N1308	0.4	2N428	0.4	T-1872	0.5	2N1505	0.5	DT1121
0.3	2N1309	0.4	2N428	0.5	2G381	0.5	2N1506	0.5	DT1122
0.3	2N1309	0.4	2N460	0.5	2G382	0.5	2N1506A	0.5	GA-52830
0.3	2N1309	0.4	2N461	0.5	2N315	0.5	2N1692	0.5	H4
0.3	2N1335	0.4	2N464	0.5	2N316	0.5	2N1693	0.5	H4A
0.3	2N1336	0.4	2N464	0.5	2N317	0.5	2N1837	0.5	OC80
0.3	2N1338	0.4	2N465	0.5	2N317A	0.5	2N1837A	0.5	OC204
0.3	2N1339	0.4	2N465	0.5	2N320	0.5	2N1838	0.5	OC205
0.3	2N1340	0.4	2N466	0.5	2N321	0.5	2N1839	0.5	OC206
0.3	2N1341	0.4	2N466	0.5	2N322	0.5	2N1840	0.5	PT851
0.3	2N1342	0.4	2N467	0.5	2N323	0.5	2N1893A	0.5	SF.T124
0.3	2N1404	0.4	2N467	0.5	2N324	0.5	2N1924	0.5	SF.T125
0.3	2N1404	0.4	2N497	0.5	2N356	0.5	2N1925	0.5	SF.T125P
0.3	2N1605	0.4	2N497	0.5	2N356A	0.5	2N1926	0.5	SF.T130
0.3	2N1614	0.4	2N498	0.5	2N357	0.5	2N1958	0.5	SF.T131
0.3	2N1645	0.4	2N526 JAN	0.5	2N357	0.5	2N1958/18	0.5	SF.T131P
0.3	2N1808	0.4	2N547	0.5	2N357A	0.5	2N1959	0.5	SF.T143
0.3	2N1993	0.4	2N576	0.5	2N358	0.5	2N1959/18	0.5	SF.T144
0.3	2N1994	0.4	2N576A	0.5	2N524	0.5	2N1964	0.5	SF.T145
0.3	2N1995	0.4	2N578	0.5	2N524A	0.5	2N1965	0.5	SF.T146
0.3	2N1996	0.4	2N579	0.5	2N525	0.5	2N1997	0.5	SF.T241
0.3	2N2095	0.4	2N580	0.5	2N525A	0.5	2N1998	0.5	SF.T242
0.3	2N2098	0.4	2N597	0.5	2N526	0.5	2N1999	0.5	SF.T243
0.3	2N2430	0.4	2N598	0.5	2N526A	0.5	2N2008	0.5	SF.T288
0.3	2N2883	0.4	2N599	0.5	2N527	0.5	2N2060	0.5	SF.T298
0.3	2N2884	0.4	2N600	0.5	2N527A	0.5	2N2086	0.5	SYL2271
0.3	2N2962	0.4	2N601	0.5	2N545	0.5	2N2087	0.5	T-1601
0.3	2N2963	0.4	2N626 JAN	0.5	2N549	0.5	2N2096	0.5	T-2092
0.3	2N2964	0.4	2N656	0.5	2N550	0.5	2N2097	0.5	TI490
0.3	2N2965	0.4	2N656	0.5	2N631	0.5	2N2099	0.5	ZT696
0.3	2SB155	0.4	2N656	0.5	2N632	0.5	2N2100	0.5	ZT697
0.3	2SB156	0.4	2N657	0.5	2N633	0.5	2N2223	0.6	2N722
0.3	2SB156A	0.4	2N657	0.5	2N650	0.5	2N2223A	0.6	2N1131
0.3	2SB199	0.4	2N697	0.5	2N650	0.5	2N2271	0.6	2N1132
0.3	2SC110	0.4	2N1017	0.5	2N650 USN	0.5	2N2368	0.6	2N1132
0.3	2SC111	0.4	2N1018	0.5	2N650A	0.5	2N2369	0.6	2N1132A
0.3	2SC112	0.4	2N1054	0.5	2N651	0.5	2N2374	0.6	2N1132B
0.3	2SC113	0.4	2N1090	0.5	2N651	0.5	2N2375	0.6	2N1132B
0.3	2SC114	0.4	2N1091	0.5	2N651A	0.5	2N2376	0.6	2N2904
0.3	AD121	0.4	2N1091	0.5	2N651 USN	0.5	2N2380	0.6	2N2904A
0.3	AC127	0.4	2N1117	0.5	2N652	0.5	2N2380A	0.6	2N2905
0.3	AC152	0.4	2N1123	0.5	2N652	0.5	2N2381	0.6	2N2905A
0.3	ASY48	0.4	2N1169	0.5	2N652	0.5	2N2382	0.6	2N2906
0.3	ASY70	0.4	2N1170	0.5	2N652 USN	0.5	2N2478	0.6	2N2906A
0.3	BFY13	0.4	2N1170	0.5	2N653	0.5	2N2479	0.6	2N2907
0.3	DT1510	0.4	2N1319	0.5	2N696	0.5	2N2651	0.6	2N2907A
0.3	DT1511	0.4	2N1473	0.5	2N697	0.5	2N2710	0.6	2N3081
0.3	DT1512	0.4	2N1969	0.5	2N710	0.5	2N2938	0.6	2SA128
0.3	DT1520	0.4	2N2172	0.5	2N1067	0.5	2N3037	0.6	2SA129
0.3	DT1521	0.4	2N2225	0.5	2N1092	0.5	2N3038	0.6	2SC117
0.3	DT1522	0.4	2S017	0.5	2N1175	0.5	2N3039	0.6	2SC118
0.3	GF-40022	0.4	2S018	0.5	2N1185	0.5	2N3040	0.6	2SC119
0.3	TF49	0.4	2S019	0.5	2N1186	0.5	2N3118	0.6	BSY34
0.3	XT1A	0.4	2S020	0.5	2N1187	0.5	2N3119	0.6	BSY58
0.3	XT1B	0.4	2SA78	0.5	2N1188	0.5	2SB62	0.6	MHT4411
0.3	XT1C	0.4	2SA208	0.5	2N1189	0.5	2SB63	0.6	MHT4412
0.3	XT1D	0.4	2SA209	0.5	2N1190	0.5	2SB81	0.6	MHT4413
.35	H3	0.4	2SA210	0.5	2N1204	0.5	2SB82	0.6	MHT4414

MAX I_C	TRANSISTOR	MAX I_C	TRANSISTOR	MAX I_C	TRANSISTOR	MAX I_C	TRANSISTOR	MAX I_C	TRANSISTOR
0.6	MHT4415	1.0	2N660	1.0	2N2898	1.0	2-OC83	2.0	2N2781
0.6	MHT4416	1.0	2N660	1.0	2N2899	1.0	OC84	2.0	2N2782
0.6	MHT4417	1.0	2N660	1.0	2N2900	1.0	2-OC84	2.0	2N2783
0.6	MHT4418	1.0	2N661	1.0	2N2909	1.0	SF.T191	2.0	2N2874
0.6	MHT4419	1.0	2N661	1.0	2N2939	1.0	SF.T232	2.0	2S721
0.6	MHT4501	1.0	2N661	1.0	2N2940	1.0	SF.T233	2.0	2S722
0.6	MHT4502	1.0	2N662	1.0	2N2941	1.0	SF.T234	2.0	2S723
0.6	MHT4511	1.0	2N662	1.0	2N2987	1.0	ZT91	2.0	2S724
0.6	MHT4512	1.0	2N662	1.0	2N2988	1.0	ZT92	2.0	2SC21
0.6	MHT4513	1.0	2N711B	1.0	2N2989	1.0	ZT1613	2.0	2SC101
0.6	MHT4514	1.0	2N719A	1.0	2N2990	1.0	ZT1700	2.0	AR-5
0.6	MHT4515	1.0	2N1116	1.0	2N2991	1.0	ZT2270	2.0	AR-6
0.6	MHT4516	1.0	2N1420	1.0	2N2992	1.2	2N2525	2.0	AR-7
0.7	2N2949	1.0	2N1420	1.0	2N2993	1.2	2N2887	2.0	OC22
0.7	2N2950	1.0	2N1420A	1.0	2N2994	1.2	2N3036	2.0	OC23
0.7	2N3053/40053	1.0	2N1505	01	2SA257	1.2	2SB41	2.0	OC24
0.7	AUY10	1.0	2N1506	1.0	2SB80	1.2	2SB42	2.0	OC122
.75	2N1714	1.0	2N1506A	1.0	2SB142	1.2	DPT657	2.0	OC123
.75	2N1715	1.0	2N1613	1.0	2SB143	1.4	H2	2.0	PT530A
.75	2N1716	1.0	2N1613	1.0	2SB144	1.4	OC30	2.0	PT613
.75	2N1717	1.0	2N1700	1.0	2SB145	1.5	2N101/13	2.0	PT692
.75	2N1718	1.0	2N1711	1.0	2SB146	1.5	2N102/13	2.0	ST400
.75	2N1719	1.0	2N1711	1.0	2SB367	1.5	2N1068	2.0	ST401
.75	2N1720	1.0	2N1711	1.0	2SB368	1.5	2N1172	2.0	ST440
.75	2N1721	1.0	2N1711	1.0	2SD120	1.5	2N1479	2.0	ST450
.75	2N2618	1.0	2N1718	1.0	2T3030	1.5	2N1480	2.0	T-1602
.75	2N2618/46	1.0	2N1719	1.0	2T3031	1.5	2N1481	2.5	2N1701
.75	PADT50	1.0	2N1720	1.0	2T3032	1.5	2N1482	2.5	2N2339
.75	TI486	1.0	2N1721	1.0	2T3033	1.5	2N1609	2.5	2N2475
.75	TI487	1.0	2N1958A	1.0	2T3041	1.5	2N1610	2.5	2N3229
0.8	2N144/13	1.0	2N1959A	1.0	2T3042	1.5	2N1611	2.5	PT600
0.8	2N2217	1.0	2N1983	1.0	2T3043	1.5	2N1612	2.5	PT601
0.8	2N2218	1.0	2N1984	1.0	11C1B1	1.5	2N1647	3.0	2N156
0.8	2N2219	1.0	2N1985	1.0	11C1F1	1.5	2N1648	3.0	2N156
0.8	2N2220	1.0	2N1985	1.0	11C3B1	1.5	2N1649	3.0	2N158
0.8	2N2220	1.0	2N1988	1.0	11C3F1	1.5	2N1650	3.0	2N158
0.8	2N2221	1.0	2N1989	1.0	11C5B1	1.5	2N2826	3.0	2N158A
0.8	2N2221	1.0	2N2000	1.0	11C5F1	1.5	2N2827	3.0	2N158A
0.8	2N2222	1.0	2N2001	1.0	11C7B1	1.5	2N2947	3.0	2N176
0.8	2N2222	1.0	2N2102	1.0	11C7F1	1.5	2N2948	3.0	2N176
0.8	2N2410	1.0	2N2192	1.0	11C10B1	1.5	2N3262	3.0	2N178
0.8	2N2537	1.0	2N2192	1.0	11C10F1	1.5	2SB122	3.0	2N234A
0.8	2N2538	1.0	2N2192A	1.0	11C11B1	1.5	2SB131	3.0	2N235A
0.8	2N2539	1.0	2N21928	1.0	11C11F1	1.5	2SB132	3.0	2N235B
0.8	2N2540	1.0	2N2193	1.0	11C201B20	1.5	2SB140	3.0	2N236A
0.8	2N2540	1.0	2N2193A	1.0	11C203B20	1.5	2SB141	3.0	2N236B
0.8	2N2787	1.0	2N21938	1.0	11C205B20	1.5	2SD121	3.0	2N250
0.8	2N2788	1.0	2N2194	1.0	11C207B20	1.5	2T3011	3.0	2N251
0.8	2N2789	1.0	2N2194A	1.0	11C210B20	1.5	2T3021	3.0	2N255
0.8	2N2790	1.0	2N21948	1.0	11C211B20	1.5	AD148	3.0	2N256
0.8	2N2791	1.0	2N2195	1.0	11C702	1.5	DT4110	3.0	2N257
0.8	2N2792	1.0	2N2195A	1.0	11C704	1.5	DT4111	3.0	2N268
0.8	2N2800	1.0	2N21958	1.0	11C710	1.5	DT4112	3.0	2N297A
0.8	2N2801	1.0	2N2243	1.0	AC153	1.5	DT4120	3.0	2N297A USA
0.8	2N2837	1.0	2N2243A	1.0	ACY17	1.5	DT4121	3.0	2N301
0.8	2N2838	1.0	2N2270	1.0	ACY18	1.5	OC122	3.0	2N301
0.8	H1	1.0	2N2297	1.0	ACY19	1.5	OC123	3.0	2N301A
0.8	MM486	1.0	2N2350	1.0	ACY20	1.5	ZT1479	3.0	2N307
0.8	MM487	1.0	2N2350A	1.0	ACY21	1.5	ZT1480	3.0	2N350A
0.8	MM488	1.0	2N2351	1.0	ACY22	1.5	ZT1481	3.0	2N351
0.8	MM511	1.0	2N2351A	1.0	ACY33	1.5	ZT1482	3.0	2N375
0.8	MM512	1.0	2N2352	1.0	GET102	2.0	2N326	3.0	2N375
0.8	MM513	1.0	2N2352A	1.0	GET103	2.0	2N389	3.0	2N386
0.8	OC22	1.0	2N2353	1.0	GET104	2.0	2N424	3.0	2N387
0.8	OC23	1.0	2N2353A	1.0	GET105	2.0	2N670	3.0	2N389
0.8	OC24	1.0	2N2364	1.0	GET106	2.0	2N671	3.0	2N389 USN
1.0	2N528	1.0	2N2364A	1.0	GET110	2.0	2N672	3.0	2N389A
1.0	2N546	1.0	2N2868	1.0	GET111	2.0	2N673	3.0	2N424
1.0	2N548	1.0	2N2405	1.0	GET113	2.0	2N1072 USA	3.0	2N424A
1.0	2N658	1.0	2N2835	1.0	GET114	2.0	2N1218	3.0	2N538
1.0	2N658	1.0	2N2863	1.0	GET115	2.0	2N1709	3.0	2N538A
1.0	2N658	1.0	2N2864	1.0	GET116	2.0	2N1710	3.0	2N539
1.0	2N659	1.0	2N2895	1.0	GET120	2.0	2N1841	3.0	2N539A
1.0	2N659	1.0	2N2896	1.0	OC30	2.0	2N2150	3.0	2N540
1.0	2N659	1.0	2N2897	1.0	OC83	2.0	2N2151	3.0	2N540A

3.0

5.0

MAX I_C	TRANSISTOR	MAX I_C	TRANSISTOR	MAX I_C	TRANSISTOR	MAX I_C	TRANSISTOR	MAX I_C	TRANSISTOR
3.0	2N554	3.0	2N2146	3.0	ZT1483	5.0	2N456	5.0	2N1559
3.0	2N555	3.0	2N2146A	3.0	ZT1484	5.0	2N457	5.0	2N1616
3.0	2N618	3.0	2N2282	3.0	ZT1485	5.0	2N554	5.0	2N1616
3.0	2N618	3.0	2N2283	3.0	ZT1486	5.0	2N665	5.0	2N1617
3.0	2N669	3.0	2N2284	3.5	2N538	5.0	2N665 SIG.C	5.0	2N1617
3.0	2N1007	3.0	2N2467	3.5	2N538A	5.0	2N1011	5.0	2N1617
3.0	2N1038	3.0	2N2468	3.5	2N539	5.0	2N1011	5.0	2N1618
3.0	2N1183	3.0	2N2469	3.5	2N539A	5.0	2N1011 SIG.C	5.0	2N1618
3.0	2N1183A	3.0	2N2659	3.5	2N540	5.0	2N1011 USA	5.0	2N1618
3.0	2N1183B	3.0	2N2660	3.5	2N540A	5.0	2N1159	5.0	2N1620
3.0	2N1184	3.0	2N2661	3.5	2N1039	5.0	2N1168	5.0	2N1702
3.0	2N1184A	3.0	2N2662	3.5	2N1040	5.0	2N1208	5.0	2N1703
3.0	2N1184B	3.0	2N2663	3.5	2N1041	5.0	2N1209	5.0	2N1722
3.0	2N1202	3.0	2N2664	3.5	2N1042	5.0	2N1210	5.0	2N1724
3.0	2N1203	3.0	2N2665	3.5	2N1043	5.0	2N1211	5.0	2N1725
3.0	2N1212	3.0	2N2666	3.5	2N1044	5.0	2N1529	5.0	2N2173
3.0	2N1261	3.0	2N2667	3.5	2N1045	5.0	2N1529A	5.0	2N2266
3.0	2N1262	3.0	2N2668	3.5	2N1202	5.0	2N1530	5.0	2N2267
3.0	2N1263	3.0	2N2669	3.5	2N1203	5.0	2N1530A	5.0	2N2268
3.0	2N1292	3.0	2N2670	3.5	2N1261	5.0	2N1531	5.0	2N2269
3.0	2N1294	3.0	2N2983	3.5	2N1262	5.0	2N1531A	5.0	2N2632
3.0	2N1296	3.0	2N2984	3.5	2N1263	5.0	2N1532	5.0	2N2633
3.0	2N1314	3.0	2N2985	3.5	2N1501	5.0	2N1532A	5.0	2N2634
3.0	2N1321	3.0	2N2986	3.5	2N1502	5.0	2N1533	5.0	2N2657
3.0	2N1323	3.0	2N3021	3.5	2N1893	5.0	2N1534	5.0	2N2658
3.0	2N1325	3.0	2N3022	3.5	AR-9	5.0	2N1534A	5.0	2N2697
3.0	2N1326	3.0	2N3023	3.5	AR-10	5.0	2N1535	5.0	2N2698
3.0	2N1359	3.0	2N3024	3.5	AR-11	5.0	2N1535A	5.0	2N3212
3.0	2N1360	3.0	2N3025	3.5	AR-12	5.0	2N1536	5.0	2N3213
3.0	2N1362	3.0	2N3026	3.5	AR-13	5.0	2N1536A	5.0	2N3214
3.0	2N1363	3.0	2SD122	3.5	CA2D2	5.0	2N1537	5.0	2N3215
3.0	2N1364	3.0	2SD123	3.5	CB1F4	5.0	2N1537A	5.0	2SB151
3.0	2N1365	3.0	146T1	3.5	OC26	5.0	2N1538	5.0	2SB152
3.0	2N1437	3.0	147T1	4.0	2N351A	5.0	2N1539	5.0	2SB318
3.0	2N1438	3.0	AD130	4.0	2N553	5.0	2N1539	5.0	2SB319
3.0	2N1465	3.0	AD131	4.0	2N553	5.0	2N1539	5.0	2SB320
3.0	2N1466	3.0	AD132	4.0	2N663	5.0	2N1539A	5.0	2SB361
3.0	2N1483	3.0	AD140	4.0	2N1069	5.0	2N1540	5.0	2SC41
3.0	2N1484	3.0	2-AD140	4.0	2N1069	5.0	2N1540	5.0	2SC42
3.0	2N1485	3.0	AD149	4.0	2N1070	5.0	2N1540	5.0	2SC43
3.0	2N1486	3.0	AD150	4.0	2N1070	5.0	2N1540A	5.0	2SC44
3.0	2N1501	3.0	ADY27	4.0	2N1666	5.0	2N1541	5.0	3TX002
3.0	2N1502	3.0	AUY19	4.0	2N1971	5.0	2N1541	5.0	3TX003
3.0	2N1504	3.0	AUY20	4.0	2N3054	5.0	2N1541	5.0	3TX004
3.0	2N1504/10	3.0	CK256	4.0	AMF101	5.0	2N1541A	5.0	B1215
3.0	2N1658	3.0	CK258	4.0	AMF102	5.0	2N1542	5.0	CDT1310
3.0	2N1659	3.0	CK311	4.0	AMF103	5.0	2N1542	5.0	CDT1311
3.0	2N1723	3.0	CK312	4.0	AMF104	5.0	2N1542	5.0	CDT1312
3.0	2N1768	3.0	CK313	4.0	AMF105	5.0	2N1542A	5.0	CDT1313
3.0	2N1769	3.0	CK314	4.0	AMF106	5.0	2N1543	5.0	CDT1319
3.0	2N2061	3.0	CK315	4.0	AMF107	5.0	2N1543	5.0	CDT1320
3.0	2N2062	3.0	CST1739	4.0	AMF108	5.0	2N1543	5.0	CDT1321
3.0	2N2063	3.0	CST1740	4.0	AMF109	5.0	2N1544	5.0	CDT1322
3.0	2N2064	3.0	CST1741	4.0	AMF110	5.0	2N1544	5.0	CTP1728
3.0	2N2065	3.0	CST1742	4.0	AR-8	5.0	2N1544A	5.0	CTP1729
3.0	2N2066	3.0	CST1743	4.0	AR-8A	5.0	2N1545	5.0	CTP1730
3.0	2N2101	3.0	CST1744	4.0	BDY10	5.0	2N1545	5.0	CTP1731
3.0	2N2137	3.0	CST1745	4.0	BDY11	5.0	2N1545A	5.0	CTP1732
3.0	2N2137A	3.0	CST1746	4.0	OC25	5.0	2N1546	5.0	CTP1733
3.0	2N2138	3.0	H45	4.0	OC28	5.0	2N1546	5.0	CTP1735
3.0	2N2138A	3.0	LT-11	4.5	2N1667	5.0	2N1546A	5.0	CTP1736
3.0	2N2139	3.0	LT-12	4.5	2N1668	5.0	2N1547	5.0	DS-503
3.0	2N2139A	3.0	LT-13	4.5	2N1669	5.0	2N1547	5.0	DS-520
3.0	2N2140	3.0	LT-14	4.5	OC29	5.0	2N1547A	5.0	MHM2001
3.0	2N2140A	3.0	LT-15	4.5	OC35	5.0	2N1548	5.0	MHM2101
3.0	2N2141	3.0	LT5165	4.5	OC36	5.0	2N1548	5.0	MHT4451
3.0	2N2141A	3.0	OC16	5.0	2N255A	5.0	2N1549	5.0	MHT4452
3.0	2N2142	3.0	2-OC16	5.0	2N256A	5.0	2N1550	5.0	MHT4453
3.0	2N2142A	3.0	OC19	5.0	2N297	5.0	2N1551	5.0	MHT4454
3.0	2N2143	3.0	OC26	5.0	2N297A	5.0	2N1552	5.0	MHT4455
3.0	2N2143A	3.0	SF.T212	5.0	2N376A	5.0	2N1553	5.0	MHT4456
3.0	2N2144	3.0	2SF.T212	5.0	2N392	5.0	2N1554	5.0	MHT4551
3.0	2N2144A	3.0	SF.T213	5.0	2N418	5.0	2N1555	5.0	MHT4552
3.0	2N2145	3.0	SF.T214	5.0	2N420	5.0	2N1557	5.0	MHT4553
3.0	2N2145A	3.0	SF.T250	5.0	2N420A	5.0	2N1558	5.0	MHT4554

MAX I_C	TRANSISTOR	MAX I_C	TRANSISTOR	MAX I_C	TRANSISTOR	MAX I_C	TRANSISTOR	MAX I_C	TRANSISTOR
5.0	MHT4555	7.0	2N1021	7.5	164-16	10	2N2293	15	2N1031C
5.0	MHT4556	7.0	2N1021A	7.5	164-18	10	2N2294	15	2N1032
5.0	MHT6001	7.0	2N1022	7.5	164-20	10	2N2295	15	2N1032A
5.0	MHT6011	7.0	2N1022A	7.5	AMF111	10	2N2296	15	2N1032B
5.0	MHT6012	7.0	2N1160	7.5	AMF112	10	2N2526	15	2N1032C
5.0	MHT6013	7.0	2SC102	7.5	AMF113	10	2N2527	15	2N1099
5.0	MHT6014	7.5	2N1015	7.5	AMF114	10	2N2528	15	2N1099
5.0	MHT6015	7.5	2N1015	7.5	AMF115	10	2N2580	15	2N1100
5.0	MHT6016	7.5	2N1015A	7.5	AMF116	10	2N2581	15	2N1100
5.0	XT2A	7.5	2N1015A	8.0	2SB149	10	2N2582	15	2N1100
5.0	XT2B	7.5	2N1015B	8.0	130-04	10	2N2583	15	2N1120
5.0	XT2C	7.5	2N1015B	8.0	130-06	10	2N2869	15	2N1120 USA
5.0	XT2D	7.5	2N1015C	8.0	130-08	10	2N2870	15	2N1146
6.0	2G210	7.5	2N1015C	8.0	130-10	10	2N3079	15	2N1146
6.0	2N1136	7.5	2N1015D	8.0	156-04	10	2N3080	15	2N1146A
6.0	2N1136A	7.5	2N1015E	8.0	156-06	10	2SB276	15	2N1146A
6.0	2N1136C	7.5	2N1016	8.0	156-08	10	2SB296	15	2N1146B
6.0	2N1137	7.5	2N1016	8.0	156-10	10	2SB300	15	2N1146B
6.0	2N1137A	7.5	2N1016A	8.0	AUY18	10	2SB301	15	2N1146C
6.0	2N1137B	7.5	2N1016A	8.0	AUY22	10	AD136	15	2N1146C
6.0	2N1487	7.5	2N1016B	8.0	BUY13	10	AUY21	15	2N1147
6.0	2N1487	7.5	2N1016B	8.0	GET7	10	BUY12	15	2N1147
6.0	2N1488	7.5	2N1016C	8.0	GET8	10	DTS-400	15	2N1147A
6.0	2N1488	7.5	2N1016C	8.0	GET9	10	H200E	15	2N1147A
6.0	2N1489	7.5	2N1016D	10	2G220	10	MHT7401	15	2N1147B
6.0	2N1489	7.5	2N1016E	10	2G221	10	MHT7402	15	2N1147B
6.0	2N1490	7.5	2N2338	10	2G222	10	MHT7403	15	2N1147C
6.0	2N1490	7.5	2S024	10	2N301	10	OC20	15	2N1147C
6.0	2N1511	7.5	2S025	10	2N301A	10	OC28	15	2N1358
6.0	2N1512	7.5	2S026	10	2N463 USN	10	OC29	15	2N1358
6.0	2N1513	7.5	153-04	10	2N561	10	OC35	15	2N1358
6.0	2N1514	7.5	153-05	10	2N574	10	OC36	15	2N1358A
6.0	2SB64	7.5	153-06	10	2N574A	10	PT900	15	2N1358 JAN
6.0	2SB69	7.5	153-07	10	2N627	10	PT901	15	2N1358M JAN
6.0	2SB231	7.5	150-08	10	2N628	10	PT901-1	15	2N1358 USA
6.0	2SB274	7.5	153-09	10	2N629	10	PT902	15	2N1412
6.0	2SB275	7.5	153-10	10	2N630	10	PT903	15	2N1412 USN
6.0	2SD124	7.5	153-12	10	2N1046	10	PT903-1	15	2N1549
6.0	2SD125	7.5	153-14	10	2N1046A	10	XH10	15	2N1549A
6.0	151-04	7.5	153-16	10	2N1046B	12	2N2069	15	2N1550
6.0	151-05	7.5	153-18	10	2N1073	12	2N2070	15	2N1550A
6.0	151-06	7.5	153-20	10	2N1073A	12	3N45	15	2N1551
6.0	151-07	7.5	154-04	10	2N1073B	12	3N46	15	2N1551A
6.0	151-08	7.5	154-05	10	2N1359	12	3N47	15	2N1552
6.0	151-09	7.5	154-06	10	2N1360	12	3N48	15	2N1552A
6.0	151-10	7.5	154-07	10	2N1362	12	GET571	15	2N1553
6.0	152-04	7.5	154-08	10	2N1363	12	GET572	15	2N1553A
6.0	152-05	7.5	154-09	10	2N1364	12	GET573	15	2N1554
6.0	152-06	7.5	154-10	10	2N1365	15	2G223	15	2N1554A
6.0	152-07	7.5	154-12	10	2N1430	15	2G224	15	2N1555
6.0	152-08	7.5	154-14	10	2N1675	15	2N173	15	2N1555A
6.0	152-09	7.5	154-16	10	2N1899	15	2N174	15	2N1556
6.0	152-10	7.5	154-18	10	2N1900	15	2N174	15	2N1556A
6.0	SF-T238	7.5	154-20	10	2N1901	15	2N174A	15	2N1557
6.0	SF-T239	7.5	163-04	10	2N1902	15	2N174 JAN	15	2N1557A
6.0	SF-T240	7.5	163-05	10	2N1903	15	2N277	15	2N1558
6.0	ZT1487	7.5	163-06	10	2N1904	15	2N278	15	2N1558A
6.0	ZT1488	7.5	163-07	10	2N1905	15	2N441	15	2N1559
6.0	ZT1489	7.5	163-08	10	2N1906	15	2N441	15	2N1559A
6.0	ZT1490	7.5	163-09	10	2N2015	15	2N441	15	2N1560
6.0	ZT1511	7.5	163-10	10	2N2016	15	2N442	15	2N1560A
6.0	ZT1512	7.5	163-12	10	2N2212	15	2N442	15	2N1970
6.0	ZT1513	7.5	163-14	10	2N2226	15	2N443	15	2N2075
6.0	ZT1514	7.5	163-16	10	2N2227	15	2N443	15	2N2075A
7.0	2N176	7.5	163-18	10	2N2228	15	2N677	15	2N2076
7.0	2N250A	7.5	163-20	10	2N2229	15	2N677A	15	2N2076A
7.0	2N251A	7.5	164-04	10	2N2230	15	2N677B	15	2N2077
7.0	2N379	7.5	164-05	10	2N2231	15	2N677C	15	2N2077A
7.0	2N380	7.5	164-06	10	2N2232	15	2N678	15	2N2078
7.0	2N456A	7.5	164-07	10	2N2233	15	2N678A	15	2N2078A
7.0	2N456B	7.5	164-08	10	2N2288	15	2N678B	15	2N2079
7.0	2N457A	7.5	164-09	10	2N2289	15	2N678C	15	2N2079A
7.0	2N457B	7.5	164-10	10	2N2290	15	2N1031	15	2N2080
7.0	2N458A	7.5	164-12	10	2N2291	15	2N1031A	15	2N2080A
7.0	2N458B	7.5	164-14	10	2N2292	15	2N1031B	15	2N2081

MAX I_C	TRANSISTOR	MAX I_C	TRANSISTOR	MAX I_C	TRANSISTOR	MAX I_C	TRANSISTOR	MAX I_C	TRANSISTOR
15	2N2081A	20	109UD	30	2N1810	30	L15B		
15	2N2082	20	109WA	30	2N1811	30	U15B		
15	2N2082A	20	109WB	30	2N1812	35	2N1520		
15	2N2210	20	109WC	30	2N1813	35	2N1521		
15	2N2490	20	109WD	30	2N1814	40	2N1157		
15	2N2491	20	109XA	30	2N1816	40	2N1157A		
15	2N2492	20	109XB	30	2M1817	50	2N1522		
15	2N2493	20	109XC	30	2N1818	50	2N1523		
15	2N3055	20	109XD	30	2N1819	50	2N2357		
15	2SB124	20	ADZ11	30	2N1823	50	2N2358		
15	2SB125	20	ADZ12	30	2N1824	50	2N2359		
15	2SB148	20	H10	30	2N1825	50	2N2728		
15	2SB235	20	H15A	30	2N1826	50	MHT2205		
15	2SB236	20	H15B	30	2N1830	50	MHT2305		
15	2SB237	20	L10	30	2N1831	60	2N1138		
15	2SB258	20	L15A	30	2N1832	60	2N1138A		
15	2SB259	20	U15A	30	2N1833	60	2N1138B		
15	2SB260	25	2G229	30	2N2109	60	MP500		
15	2SB331	25	2G230	30	2N2110	60	MP500A		
15	2SB332	25	2G231	30	2N2111	60	MP501		
15	2SB333	25	2N511	30	2N2112	60	MP501A		
15	2SB334	25	2N511A	30	2N2113	60	MP502		
15	3N49	25	2N511B	30	2N2114	60	MP502A		
15	3N51	25	2N512	30	2N2116	60	MP503A		
15	3N52	25	2N512A	30	2N2117	60	MP504		
15	AD133	25	2N512B	30	2N2118	60	MP504A		
15	CTP1500	25	2N513	30	2N2119	60	MP505		
15	CTP1503	25	2N513A	30	2N2123	60	MP505A		
15	CTP1504	25	2N513B	30	2N2124	60	MP506		
15	CTP1508	25	2N514	30	2N2125	60	MP506A		
15	CTP3500	25	2N514A	30	2N2126	60	MP507		
15	CTP3503	25	2N514B	30	2N2130	60	MP507A		
15	CTP3504	25	2N575	30	2N2131	65	2N2730		
15	CTP3508	25	2N575A	30	2N2132	65	2N2731		
15	DS-501	25	2N1162	30	2N2133	65	2N2732		
15	DS-502	25	2N1162A	30	2N2152	65	2N2733		
15	DS-504	25	2N1163	30	2N2152A	65	2N2734		
15	DS-505	25	2N1163A	30	2N2153	65	2N2735		
15	DS-506	25	2N1164	30	2N2153A	65	2N2736		
15	DS-525	25	2N1164	30	2N2154	65	2N2737		
15	DT100	25	2N1164A	30	2N2154A	65	2N2738		
15	H10	25	2N1165	30	2N2155	65	MHT1802		
15	SF.T264	25	2N1165A	30	2N2155A	65	MHT1803		
15	SF.T265	25	2N1165 USN	30	2N2156	65	MHT1804		
15	SF.T266	25	2N1166	30	2N2156A	65	MHT1902		
15	SF.T267	25	2N1166A	30	2N2157	65	MHT1903		
20	2G226	25	2N1167	30	2N2157A	65	MHT1904		
20	2G227	25	2N1167A	30	2N2158	65	MHT2002		
20	2G228	25	2N1518	30	2N2158A	65	MHT2003		
20	2N1907	25	2N1519	30	2N2159	65	MHT2004		
20	2N1908	25	2N1651	30	2N2159A	150	MHT2101		
20	2N2739	25	2N1652	30	2N2757				
20	2N2740	25	2N1653	30	2N2758				
20	2N2741	25	2N1694	30	2N2759				
20	2N2742	25	2N1751	30	2N2760				
20	2N2745	25	2N2285	30	2N2761				
20	2N2746	25	2N2286	30	2N2763				
20	2N2747	25	2N2287	30	2N2764				
20	2N2748	25	2N2636	30	2N2765				
20	2N2751	25	2N2637	30	2N2766				
20	2N2752	25	2N2638	30	2N2769				
20	2N2753	25	2N2912	30	2N2770				
20	2N2754	25	2N3263	30	2N2771				
20	2N2832	25	2N3264	30	2N2772				
20	2N2833	25	2N3265	30	2SB202				
20	2N2834	25	2N3266	30	2SB204				
20	2SB203	25	CTP1544	30	2SB206				
20	2SB205	25	CTP1545	30	2SB208				
20	2SB207	25	CTP1552	30	2SB210				
20	2SB209	25	CTP1553	30	2SB212				
20	2SB211	25	CTP3544	30	2SB214				
20	2SB213	25	CTP3545	30	ADY26				
20	109UA	25	CTP3552	30	DA3F3				
20	109UB	25	CTP3553	30	H12				
20	109UC	30	2N1809	30	H12A				

MAX V_{CE}	TRANSISTOR	MAX V_{CE}	TRANSISTOR	MAX V_{CE}	TRANSISTOR	MAX V_{CE}	TRANSISTOR	MAX V_{CE}	TRANSISTOR
2	2N673	6.0	2N709/51	7.0	2N7118	10	2N1017	12	2N428
2.5	2N133	6.0	2N709A/51	7.0	2N768	10	2N1028	12	2N428
2.5	CK727	6.0	2N864	7.0	2N769	10	2N1028	12	2N428
3.0	OC53	6.0	2N864	7.0	2N797	10	2N1119	12	2N428 JAN
3.0	OC54	6.0	2N907	7.0	2N960	10	2N1119	12	2N447A
3.0	OC55	6.0	2N1018	7.0	2N961	10	2N1119	12	2N450
3.0	OC56	6.0	2N1122	7.0	2N962	10	2N1641	12	2N481
3.0	OC57	6.0	2N1122A	7.0	2N963	10	2N1754	12	2N482
3.0	OC58	6.0	2N1247	7.0	2N963	10	2N1992	12	2N482
3.0	OC59	6.0	2N1247	7.0	2N964	10	2N2276	12	2N483
3.0	OC60	6.0	2N1248	7.0	2N965	10	2N2276	12	2N483
3.0	T-1306	6.0	2N1248	7.0	2N966	10	2N2378	12	2N484
4.0	2N393	6.0	2N1427	7.0	2N967	10	2N2401	12	2N485
4.0	2N2225	6.0	2N1429	7.0	2N967	10	2N2415	12	2N520
4.0	T-1305	6.0	2N1429	7.0	2N971	10	2N2416	12	2N520
4.5	2N128	6.0	2N1429	7.0	2N975	10	2N2425	12	2N521A
4.5	2N129	6.0	2N1642	7.0	2N985	10	2N2425	12	2N558
4.5	2N232	6.0	2N1750	7.0	2N1785	10	2N2487	12	2N634A
4.5	2N1676	6.0	2N1853	7.0	2N1786	10	2N2488	12	2N635A
4.5	2N1677	6.0	2N1854	7.0	2N2256	10	2N2648	12	2N636A
4.5	L5113L	6.0	2N2175	7.0	2N2257	10	2N2968	12	2N711
4.5	L5114A	6.0	2N2176	7.0	2N2258	10	2N2969	12	2N743
4.5	S3176	6.0	2N2177	7.0	2N2259	10	2N2996	12	2N744
4.5	SB100	6.0	2N2178	7.0	2N2400	10	2N2999	12	2N779A
4.5	SB200	6.0	2N2280	7.0	T-2122	10	2SA247	12	2N782
4.5	T-1012	6.0	2N2280	8.0	2N229	10	AFZ12	12	2N794
4.5	T-1033	6.0	2N2475	8.0	2N233	10	C106	12	2N795
4.5	T-1034	6.0	2N2475/46	8.0	2N522	10	CK17	12	2N796
4.5	T-1232	6.0	2N2475/51	8.0	2N941	10	CK754	12	2N851
4.5	T-1233	6.0	2N2784	8.0	2N941	10	CK794	12	2N852
4.5	T-1300	6.0	2N2784/46	8.0	2N942	10	GET873	12	2N961
4.5	T-1502	6.0	2N2784/51	8.0	2N955	10	GET874	12	2N962
5.0	2N299	6.0	2S306	8.0	2N955A	10	MA286	12	2N965
5.0	2N300	6.0	2S326	8.0	2N1917	10	MA287	12	2N966
5.0	2N344	6.0	101A	8.0	2N1917	10	MA288	12	2N969
5.0	2N345	6.0	101B	8.0	2N1917	10	OC65	12	2N970
5.0	2N346	6.0	101M	8.0	2N1918	10	OC66	12	2N973
5.0	2N1411	6.0	201A	8.0	2N1918	10	OC430	12	2N974
5.0	2N2002	6.0	201B	8.0	2N1918	10	OC430K	12	2N980
5.0	2N2003	6.0	201M	8.0	2N2164	10	OC460	12	2N996
5.0	2N2332	6.0	C118	8.0	2N2167	10	OC460K	12	2N1059
5.0	2N2333	6.0	C119	8.0	T-2038	10	OC463	12	2N1091
5.0	2N2424	6.0	CK725	8.0	T-2039	10	OC463K	12	2N1122
5.0	2N2424	6.0	CK751	8.0	T-2040	10	OC466	12	2N1300
5.0	2N2451	6.0	CK760	9.0	2N501/18	10	OC466K	12	2N1301
5.0	2N2728	6.0	CK761	9.0	2N659	10	OC468	12	2N1378
5.0	BFY22	6.0	CK762	9.0	2N661	10	OC468K	12	2N1380
5.0	BFY23	6.0	CK766	9.0	2N661	10	SA-310	12	2N1500
5.0	BFY24	6.0	CK766A	9.0	2N1058	10	SA-312	12	2N1646
5.0	FSP-164	6.0	L5125	9.0	2N1086	10	SA-316	12	2N1683
5.0	MHT2101	6.0	L5126	9.0	2N1086A	10	SA-410	12	2N1708
5.0	MHT2205	6.0	S3126	9.0	2N1087	10	SA-412	12	2N1787
5.0	MHT2305	6.0	S3151	9.0	2N1122A	10	SA-416	12	2N1961
5.0	SB101	6.0	SA-311	9.0	2N1752	10	TF49	12	2N2402
5.0	SB102	6.0	SA-411	9.0	L5123	10	TIX316	12	2N2482
5.0	SB103	6.0	ST1026	9.0	SYL2189	11	2N660	12	2N2796
6.0	2N112	6.0	ST1050	9.0	T-1035	11	2N660	12	2N2894
6.0	2N113	6.0	ST1051	10	2N217A	11	2N662	12	2N2998
6.0	2N114	6.0	T-0038	10	2N271	11	2N662	12	2S131
6.0	2N130	6.0	T-0039	10	2N316	11	2N1251	12	2SA211
6.0	2N131	6.0	T-0040	10	2N317A	11	2N2271	12	2SA217
6.0	2N132	6.0	T-0041	10	2N394	11	2N2455	12	2SC91
6.0	2N138	6.0	T-1010	10	2N417	11	2N2456	12	2SC181
6.0	2N138A	6.0	T-1011	10	2N417	12	2N65	12	2SD61
6.0	2N170	6.0	T-1036	10	2N417	12	2N207	12	2SD62
6.0	2N240	6.0	T-1037	10	2N484	12	2N207A	12	2T681
6.0	2N317	6.0	T-1166	10	2N486	12	2N207B	12	2T682
6.0	2N393	6.0	T-1461	10	2N496	12	2N228	12	CK16
6.0	2N523	6.0	T-1503	10	2N521	12	2N253	12	CK28
6.0	2N523A	6.0	T-1598	10	2N522A	12	2N273	12	CK888
6.0	2N709	6.0	T-1877	10	2N596	12	2N306	12	L5024A
6.0	2N709	6.0	T-2091	10	2N846A	12	2N358	12	SA-315
6.0	2N709A	6.0	ZT709	10	2N976	12	2N416	12	SA-415
6.0	2N709/46	6.0	ZT2475	10	2N984	12	2N416	12	T-0067
6.0	2N709A/46	7.0	2N711A	10	2N1010	12	2N416	12	T-1001

MAX V_{CE}	TRANSISTOR	MAX V_{CE}	TRANSISTOR	MAX V_{CE}	TRANSISTOR	MAX V_{CE}	TRANSISTOR	MAX V_{CE}	TRANSISTOR
12	T-1044	15	2N541	15	2N1121	15	2N2371	15	ES3111
13	2N1144	15	2N556	15	2N1146	15	2N2372	15	ES3112
13	2N1145	15	2N557	15	2N1147	15	2N2373	15	ES3113
13	2N2865	15	2N576	15	2N1158	15	2N2381	15	ES3114
13	2N2938	15	2N582	15	2N1158A	15	2N2397	15	ES3115
14	2N193	15	2N585	15	2N1169	15	2N2481	15	ES3116
14	2N194A	15	2N595	15	2N1176	15	2N2489	15	ES3120
14	2N212	15	2N605	15	2N1204	15	2N2493	15	ES3121
14	2N578	15	2N606	15	2N1204	15	2N2495	15	ES3122
14	2N579	15	2N607	15	2N1204A	15	2N2569	15	ES3123
14	2N580	15	2N608	15	2N1228	15	2N2570	15	ES3124
14	2N581	15	2N624	15	2N1229	15	2N2613	15	ES3125
14	2N582	15	2N636	15	2N1238	15	2N2616	15	ES3126
14	2N658	15	2N695	15	2N1239	15	2N2635	15	FSP-165
14	2N659	15	2N705	15	2N1252	15	2N2656	15	FSP-215
14	T-1596	15	2N705 USN	15	2N1253	15	2N2717	15	FSP-270-1
14	T-1599	15	2N706	15	2N1253	15	2N2729	15	GET106
14	TI485	15	2N706	15	2N1253	15	2N2795	15	GET113
15	2G101	15	2N706A	15	2N1273	15	2N2799	15	GET114
15	2G102	15	2N706B	15	2N1299	15	2N2826	15	GET115
15	2G103	15	2N706C	15	2N1306	15	2N2857	15	HA7522
15	2G104	15	2N706M JAN	15	2N1307	15	2N2953	15	HA7526
15	2G110	15	2N707	15	2N1308	15	2N2997	15	NS731
15	2N64	15	2N708	15	2N1309	15	2N3013	15	HA7532
15	2N78	15	2N708	15	2N1309	15	2N3052	15	HA7536
15	2N94	15	2N708/46	15	2N1409	15	2S304	15	MA112
15	2N94A	15	2N708/51	15	2N1409A	15	2S304	15	MA113
15	2N106	15	2N710	15	2N1417	15	2S307	15	MA114
15	2N112A	15	2N741	15	2N1431	15	2S324	15	MA115
15	2N123	15	2N753	15	2N1443	15	2S327	15	MA116
15	2N123/5	15	2N753	15	2N1494	15	2SA125	15	MA117
15	2N123A	15	2N781	15	2N1494A	15	2SA208	15	MF1163
15	2N133A	15	2N784	15	2N1499A	15	2SA209	15	MF1164
15	2N168A	15	2N784/51	15	2N1726	15	2SA210	15	MM1153
15	2N169	15	2N784A	15	2N1727	15	2SA212	15	MM1154
15	2N233A	15	2N784A/46	15	2N1728	15	2SC78	15	NS661
15	2N257	15	2N827	15	2N1745	15	2SC89	15	NS665
15	2N292	15	2N828	15	2N1746	15	2SC90	15	NS732
15	2N293	15	2N828	15	2N1747	15	2SC179	15	OC740
15	2N312	15	2N829	15	2N1840	15	2SC180	15	OC740M
15	2N315	15	2N849	15	2N1864	15	2T78	15	OC740Q
15	2N316A	15	2N850	15	2N1865	15	2T205A	15	PT720
15	2N357	15	2N862	15	2N1868	15	4D24	15	SA-314
15	2N357	15	2N862	15	2N1960	15	4D25	15	SA-414
15	2N358A	15	2N863	15	2N1963	15	4D26	15	ST9
15	2N377	15	2N863	15	2N1969	15	10B551	15	ST10
15	2N388 USN	15	2N914	15	2N2004	15	10B556	15	ST11
15	2N395	15	2N914	15	2N2004	15	AF139	15	ST12
15	2N395	15	2N914	15	2N2004	15	AFY10	15	ST13
15	2N396A	15	2N914/46	15	2N2005	15	AFY11	15	ST14
15	2N396A USN	15	2N914/51	15	2N2048	15	AFY16	15	ST15
15	2N397	15	2N917	15	2N2096	15	AFY18	15	ST3030
15	2N414	15	2N918	15	2N2098	15	ASZ21	15	SYL2120
15	2N414	15	2N919	15	2N2099	15	ASZ21	15	T-1505
15	2N414A	15	2N920	15	2N2163	15	BCZ11	15	T-1542
15	2N427	15	2N947	15	2N2166	15	BSY18	15	T-1561
15	2N427	15	2N964	15	2N2168	15	BSY62	15	T-1595
15	2N440	15	2N964A	15	2N2169	15	BSY63	15	T-1597
15	2N446A	15	2N968	15	2N2170	15	CK14	15	T-1600
15	2N448	15	2N972	15	2N2172	15	CK27	15	T-1731
15	2N449	15	2N979	15	2N2273	15	CK67	15	T-1732
15	2N467	15	2N982	15	2N2278	15	CK256	15	ZT708
15	2N467	15	2N983	15	2N2278	15	CK721	16	2N252
15	2N467	15	2N995	15	2N2318	15	CK768	16	2N322
15	2N467 USA	15	2N1008	15	2N2319	15	CK871	16	2N322
15	2N470	15	2N1024	15	2N2320	15	CST1739	16	2N323
15	2N473	15	2N1024	15	2N2334	15	CST1740	16	2N323
15	2N476	15	2N1024	15	2N2335	15	CST1741	16	2N324
15	2N478	15	2N1027	15	2N2360	15	CST1742	16	2N324
15	2N501	15	2N1090	15	2N2361	15	CST1743	16	2N324
15	2N501A	15	2N1091	15	2N2362	15	CTP1728	16	2N331
15	2N501A	15	2N1094 USA	15	2N2368	15	CTP1731	16	2N508
15	2N519	15	2N1101	15	2N2369	15	DS-26	16	2N554
15	2N520A	15	2N1114	15	2N2369A	15	DT161	16	2N653
15	2N538A	15	2N1115	15	2N2370	15	ES3110	16	2N658

MAX V_{CE}	TRANSISTOR	MAX V_{CE}	TRANSISTOR	MAX V_{CE}	TRANSISTOR	MAX V_{CE}	TRANSISTOR	MAX V_{CE}	TRANSISTOR
16	2N660	20	2N187A	20	2N706B	20	2N1991	20	NS381
16	2N661	20	2N188A	20	2N726	20	2N2084 JAN	20	NS382
16	2N662	20	2N189	20	2N727	20	2N2095	20	OC46
16	2N708	20	2N190	20	2N741A	20	2N2137	20	OC74
16	2N865	20	2N191	20	2N753	20	2N2137	20	2-OC83
16	2N1314	20	2N192	20	2N783	20	2N2137A	20	OC139
16	DS-46	20	2N213	20	2N834	20	2N2142	20	OC140
16	GET7	20	2N213A	20	2N835	20	2N2142A	20	OC141
16	GET571	20	2N230	20	2N835	20	2N2244	20	OC465
16	OC26	20	2N241	20	2N909	20	2N2245	20	OC465K
16	OC30	20	2N241A	20	2N921	20	2N2246	20	OC469
18	2N111A	20	2N254	20	2N922	20	2N2250	20	OC469K
18	2N223	20	2N265	20	2N957	20	2N2251	20	PADT40
18	2N356	20	2N301	20	2N957	20	2N2252	20	PT851
18	2N406	20	2N301	20	2N978	20	2N2330	20	SA-313
18	2N413	20	2N315A	20	2N1008	20	2N2331	20	SA-413
18	2N413	20	2N319	20	2N1015	20	2N2363	20	ST3031
18	2N413A	20	2N320	20	2N1016	20	2N2382	20	T-1504
18	2N426	20	2N320	20	2N1031	20	2N2411	20	T-1559
18	2N426	20	2N321	20	2N1032	20	2N2412	20	TI482
18	2N445A	20	2N321	20	2N1065	20	2N2476	20	TI483
18	2N499	20	2N329	20	2N1146	20	2N2477	20	TI484
18	2N499A	20	2N330	20	2N1147	20	2N2501	20	TI492
18	2N508	20	2N356A	20	2N1170	20	2N2614	20	TI493
18	2N519A	20	2N357A	20	2N1173	20	2N2651	20	TI494
18	2N649	20	2N362	20	2N1174	20	2N2694	20	TI495
18	2N869	20	2N381	20	2N1183	20	2N2710	20	ZT20
18	2N943	20	2N382	20	2N1184	20	2N2797	20	ZT21
18	2N943	20	2N383	20	2N1195	20	2N2802	20	ZT40
18	2N944	20	2N388	20	2N1195 JAN	20	2N2803	20	ZT41
18	2N944	20	2N388	20	2N1217	20	2N2804	20	ZT50
18	2N1027	20	2N396	20	2N1304	20	2N2805	20	ZT202
18	2N1684	20	2N396	20	2N1305	20	2N2806	20	ZT203
18	2N1781	20	2N396A	20	2N1405	20	2N2807	20	ZT204
18	2N1919	20	2N397	20	2N1406	20	2N2846	20	ZT402
18	2N1919	20	2N422	20	2N1407	20	2N2848	20	ZT403
18	2N1920	20	2N425	20	2N1410	20	2N2861	20	ZT404
18	2N1920	20	2N425	20	2N1410A	20	2N2862	20	ZT706
18	2N1993	20	2N438	20	2N1413	20	2N2883	20	ZT1708
18	2N2413	20	2N438A	20	2N1420A	20	2N2884	20	ZT2205
18	2N2711	20	2N439	20	2N1443	20	2N2956	20	ZT2206
18	2N2712	20	2N439A	20	2N1499B	20	2N2970	20	ZT2476
18	2N2713	20	2N440	20	2N1505	20	2N2971	20	ZT2477
18	2N2714	20	2N440A	20	2N1505	20	2N3014	20	ZT2708
18	2N2715	20	2N456A	20	2N1506	20	2N3049	22	2N63
18	2N2716	20	2N466	20	2N1506	20	2N3050	22	2N359
18	2N2957	20	2N466	20	2N1507	20	2N3051	22	2N360
18	2SB370	20	2N466	20	2N1529	20	2SB140	22	2N361
18	AF106	20	2N466 JAN	20	2N1529A	20	2SB367	22	2N631
18	AF109	20	2N500	20	2N1534	20	2SC110	22	2N632
18	AFY12	20	2N502	20	2N1534A	20	2SC112	22	2N633
18	CK13	20	2N502A	20	2N1539	20	2SC114	22	2N643
18	CK25	20	2N503	20	2N1539	20	2T3011	22	2N707
20	2G301	20	2N504	20	2N1539A	20	64T1	22	2N1012
20	2G302	20	2N535	20	2N1544	20	65T1	22	2N1162
20	2G306	20	2N535A	20	2N1544	20	AD121	22	2N1162A
20	2G308	20	2N535B	20	2N1544A	20	AR-2	22	2N1163
20	2G309	20	2N536	20	2N1549	20	ASY27	22	2N1163A
20	2G371	20	2N588	20	2N1549	20	ASY29	22	AD136
20	2G374	20	2N594	20	2N1549A	20	CK22	22	CK722
20	2G381	20	2N602	20	2N1553	20	CK25	23	2N1321
20	2G401	20	2N603	20	2N1553	20	CK66	24	2N272
20	2G402	20	2N604	20	2N1553A	20	CK870	24	2N404
20	2G414	20	2N621	20	2N1557	20	CTP1508	24	2N404
20	2G415	20	2N622	20	2N1557	20	CTP1552	24	2N404
20	2G416	20	2N634	20	2N1557A	20	CTP3508	24	2N404 USAF
20	2G417	20	2N635	20	2N1623	20	CTP3552	24	2N658
20	2N36	20	2N653	20	2N1640	20	DT1510	24	2N1605
20	2N37	20	2N659	20	2N1645	20	DT1520	24	2N1605
20	2N38	20	2N677	20	2N1694	20	GA-53149	24	4D20
20	2N78A	20	2N678	20	2N1748A	20	GF-40022	24	4D21
20	2N106	20	2N679	20	2N1838	20	MF1161	24	4D22
20	2N132A	20	2N700	20	2N1839	20	MF1162	24	AC151
20	2N176	20	2N706	20	2N1962	20	MM1151	24	AC152
20	2N186A	20	2N706A	20	2N1972	20	MM1152	24	AC162

MAX V_{CE}	TRANSISTOR	MAX V_{CE}	TRANSISTOR	MAX V_{CE}	TRANSISTOR	MAX V_{CE}	TRANSISTOR	MAX V_{CE}	TRANSISTOR
24	AC163	25	2N1370	25	2T383	30	2N278	30	2N717
24	CK65	25	2N1372	25	3N47	30	2N279	30	2N718
24	CK882	25	2N1374	25	3N51	30	2N280	30	2N761
24	OC22	25	2N1376	25	11C7B1	30	2N301A	30	2N762
24	OC23	25	2N1379	25	11C7F1	30	2N310	30	2N834
24	OC23	25	2N1381	25	11C207B20	30	2N321	30	2N838
24	OC24	25	2N1382	25	11C557	30	2N328	30	2N937
24	OC24	25	2N1383	25	BCZ10	30	2N329A	30	2N937
24	TF78/30	25	2N1414	25	AR-12	30	2N329B	30	2N938
25	2N34	25	2N1414	25	AR-13	30	2N330A	30	2N956
25	2N35	25	2N1415	25	ASY26	30	2N337	30	2N1015
25	2N214	25	2N1415	25	ASY28	30	2N337	30	2N1016
25	2N224	25	2N1495	25	BCZ11	30	2N338	30	2N1031A
25	2N277	25	2N1496	25	BFY33	30	2N338	30	2N1032A
25	2N291	25	2N1507	25	BSY51	30	2N358A	30	2N1036
25	2N385	25	2N1561	25	BSY52	30	2N380	30	2N1036
25	2N438	25	2N1562	25	CTP1735	30	2N442	30	2N1036
25	2N441	25	2N1643	25	CTP1736	30	2N456B	30	2N1036
25	2N441	25	2N1643	25	DS-504	30	2N457A	30	2N1038
25	2N444A	25	2N1692	25	FSP-242-1	30	2N461	30	2N1042
25	2N495	25	2N1693	25	HA9048	30	2N461 USAF	30	2N1057
25	2N519	25	2N1788	25	HA9049	30	2N465	30	2N1092
25	2N647	25	2N1789	25	L5022A	30	2N465	30	2N1130
25	2N653	25	2N1790	25	L5025A	30	2N465	30	2N1136
25	2N654	25	2N1808	25	LT5165	30	2N465 USA	30	2N1137
25	2N655	25	2N1866	25	OC200	30	2N471	30	2N1138
25	2N663	25	2N1867	25	OC201	30	2N474	30	2N1146A
25	2N672	25	2N1983	25	OC742	30	2N477	30	2N1147A
25	2N700A	25	2N1984	25	OC742M	30	2N479	30	2N1168
25	2N700A SIG.C	25	2N1985	25	OC742Q	30	2N511	30	2N1172
25	2N702	25	2N1985	25	RD-525A	30	2N511A	30	2N1183A
25	2N702 USA	25	2N1986	25	RR14	30	2N512	30	2N1184A
25	2N703	25	2N1986	25	RR14Y.D	30	2N513	30	2N1185
25	2N703 USA	25	2N1987	25	RR20	30	2N514	30	2N1189
25	2N860	25	2N1987	25	RR20Y.D	30	2N524	30	2N1190
25	2N860	25	2N2078	25	RR21	30	2N524A	30	2N1254
25	2N861	25	2N2078A	25	RR34	30	2N525	30	2N1255
25	2N861	25	2N2082	25	RR34Y.D	30	2N525A	30	2N1258
25	2N916	25	2N2082A	25	RR38	30	2N526	30	2N1276
25	2N923	25	2N2195	25	SYL1750	30	2N526A	30	2N1277
25	2N924	25	2N2195A	25	T-1042	30	2N526 JAN	30	2N1278
25	2N1000	25	2N2195B	25	T-1046	30	2N527	30	2N1279
25	2N1102	25	2N2274	25	T-1593	30	2N527A	30	2N1384
25	2N1118	25	2N2274	25	T-1601	30	2N542	30	2N1418
25	2N1118	25	2N2353	26	OC79	30	2N546	30	2N1420
25	2N1118	25	2N2353A	27	2N2097	30	2N548	30	2N1442
25	2N1118A	25	2N2374	27	2N2100	30	2N550	30	2N1442
25	2N1118A	25	2N2375	28	2N707	30	2N552	30	2N1530
25	2N1128	25	2N2376	28	2N731	30	2N554	30	2N1530A
25	2N1129	25	2N2377	28	2N1613	30	2N555	30	2N1535
25	2N1175	25	2N2942	28	2N1711	30	2N576A	30	2N1535A
25	2N1191	25	2N2617	28	2N1711	30	2N587	30	2N1540
25	2N1192	25	2N2654	28	11B551	30	2N620	30	2N1540
25	2N1193	25	2N2798	28	11B552	30	2N627	30	2N1540A
25	2N1194	25	2N2863	28	11B554	30	2N650	30	2N1545
25	2N1198	25	2N2864	28	11B555	30	2N650	30	2N1545
25	2N1219	25	2N2873	28	OC122	30	2N650 USN	30	2N1545A
25	2N1219	25	2N2942	29	2N644	30	2N650A	30	2N1550
25	2N1219	25	2N2948	29	2N645	30	2N651	30	2N1550
25	2N1220	25	2N2955	29	CK64	30	2N651	30	2N1550A
25	2N1220	25	2N2964	30	2G303	30	2N651A	30	2N1554
25	2N1220	25	2N2965	30	2G304	30	2N651 USN	30	2N1554
25	2B1221	25	2S101	30	2G376	30	2N652	30	2N1554A
25	2N1221	25	2S302	30	2G382	30	2N652	30	2N1558
25	2N1221	25	2S303	30	2N44	30	2N652	30	2N1558
25	2N1222	25	2S303	30	2N44	30	2N652 USN	30	2N1558A
25	2N1222	25	2S323	30	2N45	30	2N669	30	2N1699
25	2N1222	25	2S701	30	2N131A	30	2N677A	30	2N1709
25	2N1274	25	2S702	30	2N156	30	2N678A	30	2N1710
25	2N1292	25	2S703	30	2N156	30	2N696	30	2N1711
25	2N1302	25	2S853	30	2N167	30	2N696	30	2N1837
25	2N1303	25	2S8331	30	2N167A	30	2N696	30	2N1837A
25	2N1338	25	2SC111	30	2N178	30	2N697	30	2N1958
25	2N1359	25	2SC113	30	2N226	30	2N697	30	2N1958A
25	2N1360	25	2SC116	30	2N255	30	2N697	30	2N1959

MAX V_{CE}	TRANSISTOR	MAX V_{CE}	TRANSISTOR	MAX V_{CE}	TRANSISTOR	MAX V_{CE}	TRANSISTOR	MAX V_{CE}	TRANSISTOR
30	2N1959/18	30	ASY70	30	TI363	35	2N1039	40	2N235A
30	2N2138	30	BFY29	30	TI364	35	2N1131	40	2N235B
30	2N2138A	30	BFY30	32	2N281	35	2N1132	40	2N236A
30	2N2143	30	BSY53	32	2N284	35	2N1132	40	2N236B
30	2N2143A	30	BSY54	32	2N591	35	2N1224	40	2N247/33
30	2N2152	30	BSY58	32	2N591/5	35	2N1225	40	2N327
30	2N2152A	30	CB1F4	32	2N718A	35	2N1230	40	2N327A
30	2N2156	30	CK258	32	2N1170	35	2N1231	40	2N327A
30	2N2156A	30	CK791	32	2N1667	35	2N1240	40	2N327B
30	2N2162	30	CK793	32	2N1668	35	2N1241	40	2N363
30	2N2165	30	CST1744	32	2N1669	35	2N1323	40	2N375
30	2N2185	30	CST1745	32	2N1964	35	2N1441	40	2N379
30	2N2185	30	CST1746	32	2N1965	35	2N1441	40	2N384/33
30	2N2217	30	CTP1117	32	2N2428	35	2N1469	40	2N388A
30	2N2218	30	CTP1133	32	2N2429	35	2N1469	40	2N441
30	2N2219	30	CTP1135	32	2N2430	35	2N1473	40	2N457B
30	2N2220	30	CTP1544	32	2N2671	35	2N1711	40	2N458A
30	2N2220	30	CTP3544	32	2N2672	35	2N1711	40	2N462
30	2N2221	30	DS-501	32	2N2706	35	2N2006	40	2N464
30	2N2221	30	DS-503	32	2N2786	35	2N2007	40	2N464
30	2N2222	30	DS-505	32	2N2835	35	2N2049	40	2N464
30	2N2222	30	DS-506	32	2S024	35	2N2279/51	40	2N512A
30	2N2282	30	DT1110	32	2SB318	35	2N2297	40	2N513A
30	2N2410	30	DT1120	32	AD133	35	2N2303	40	2N514A
30	2N2432	30	DT4110	32	ÁR-1	35	2N2336	40	2N528
30	2N2467	30	DT4120	32	AUY21	35	2N2337	40	2N553
30	2N2537	30	FSP-42	32	BCY10	35	2N2645	40	2N553
30	2N2538	30	FSP-42-1	32	BCY12	35	2N2677	40	2N619
30	2N2539	30	FT1746	32	GET8	35	2N2678	40	2N665
30	2N2540	30	GA-52829	32	GET572	35	2N2787	40	2N665 SIG.C
30	2N2540	30	GET104	32	OC19	35	2N2788	40	2N670
30	2N2692	30	HA7599	32	OC22	35	2N2789	40	2N671
30	2N2693	30	L15A	32	OC80	35	2N2790	40	2N697
30	2N2732	30	L15B	32	2-OC84	35	2N2791	40	2N707A
30	2N2735	30	MHT1804	32	OC122	35	2N2792	40	2N717
30	2N2738	30	MHT1904	35	2N43A	35	2N2800	40	2N718
30	2N2781	30	MHT2004	35	2N43A	35	2N2801	40	2N718A
30	2N2827	30	MHT4501	35	2N307	35	2N2837	40	2N858
30	2N2845	30	MM486	35	2N326	35	2N2838	40	2N858
30	2N2847	30	MM487	35	2N328A	35	2N3039	40	2N859
30	2N2962	30	MM488	35	2N328A	35	2SB368	40	2N859
30	2N2963	30	MM511	35	2N328B	35	3N45	40	2N925
30	2N3021	30	MM512	35	2N350A	35	3N49	40	2N926
30	2N3024	30	MM513	35	2N351A	35	AR-101	40	2N935
30	2N3040	30	MP500	35	2N376A	35	AR-102	40	2N935
30	2N3215	30	MP500A	35	2N377A	35	AUY18	40	2N997
30	2S731	30	MP504	35	2N404A	35	CTP1504	40	2N1007
30	2S732	30	MP504A	35	2N404A	35	CTP3504	40	2N1008A
30	2S733	30	NS475	35	2N460	35	DA3F3	40	2N1011 SIG.C
30	2S741	30	NS476	35	2N586	35	HA7520	40	2N1011 USA
30	2S744	30	NS477	35	2N721	35	HA7523	40	2N1034
30	2SB203	30	NS733	35	2N722	35	HA7527	40	2N1034
30	2SB204	30	NS734	35	2N929	35	HA7530	40	2N1034
30	2SB209	30	OC70	35	2N930	35	HA7533	40	2N1034
30	2SB210	30	OC71	35	2N936	35	HA7537	40	2N1039
30	2SC166	30	OC75	35	2N936	35	HA7598	40	2N1039 USN
30	3N34	30	OC440	35	2N938	35	NS662	40	2N1043
30	3N35	30	OC440K	35	2N939	35	NS663	40	2N1051
30	4C28	30	OC470	35	2N939	35	NS666	40	2N1073
30	4C29	30	OC470K	35	2N940	35	NS667	40	2N1124
30	4C30	30	PT692	35	2N940	36	B1215	40	2N1125
30	4C31	30	R186	35	2N1008A	37	2N1218	40	2N1126
30	7A30	30	RD-2517A	35	2N1025	37	2N1294	40	2N1127
30	7A31	30	RD-2520A	35	2N1025	37	CTP1729	40	2N1131A
30	7A32	30	RT5001	35	2N1026	37	CTP1732	40	2N1132A
30	146T1	30	RT5002	35	2N1026A	38	2N1432	40	2N1146B
30	ACY23	30	ST29	35	2N1035	40	2G220	40	2N1147B
30	ACY32	30	ST30	35	2N1035	40	2G223	40	2N1176A
30	ACY33	30	ST31	35	2N1035	40	2G226	40	2N1183B
30	AD130	30	ST32	35	2N1035	40	2G229	40	2N1184B
30	AD140	30	ST33	35	2N1037	40	2G403	40	2N1223
30	2-AD140	30	ST34	35	2N1037	40	2G413	40	2N1223
30	AD149	30	ST35	35	2N1037	40	2N130A	40	2N1223
30	AD150	30	T-1594	35	2N1037	40	2N174A	40	2N1256
30	ADY27	30	T-2357	35	2N1037	40	2N174 JAN	40	2N1257

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MAX V_{CE}	TRANSISTOR	MAX V_{CE}	TRANSISTOR	MAX V_{CE}	TRANSISTOR	MAX V_{CE}	TRANSISTOR	MAX V_{CE}	TRANSISTOR
40	2N1358	40	2N2350	40	BFY12	45	2N475	45	2N2144
40	2N1358M JAN	40	2N2350A	40	BSY34	45	2N475A	45	2N2144A
40	2N1358 USA	40	2N2352	40	CTP1545	45	2N480	45	2N2153
40	2N1396	40	2N2352A	40	CTP3545	45	2N480A	45	2N2153A
40	2N1413	40	2N2868	40	DT1511	45	2N511B	45	2N2157
40	2N1420	40	2N2380	40	DT1521	45	2N512B	45	2N2157A
40	2N1430	40	2N2380A	40	GA-52830	45	2N513B	45	2N2196
40	2N1439	40	2N2478	40	GA-53242	45	2N514B	45	2N2197
40	2N1440	40	2N2479	40	GET9	45	2N543	45	2N2247
40	2N1444	40	2N2491	40	GET573	45	2N543A	45	2N2248
40	2N1479	40	2N2529	40	HA7597	45	2N560 JAN	45	2N2249
40	2N1487	40	2N2530	40	HA7630	45	2N628	45	2N2253
40	2N1487	40	2N2531	40	HA7632	45	2N756	45	2N2254
40	2N1489	40	2N2532	40	HA7730	45	2N757	45	2N2255
40	2N1489	40	2N2533	40	HA7732	45	2N758	45	2N2270
40	2N1501	40	2N2534	40	MHM1001	45	2N759	45	2N2387
40	2N1501	40	2N2618	40	MHM1101	45	2N760	45	2N2388
40	2N1502	40	2N2618/46	40	MHT4411	45	2N780	45	2N2433
40	2N1502	40	2N2636	40	MHT4412	45	2N839	45	2N2434
40	2N1505	40	2N2782	40	MHT4413	45	2N840	45	2N2523
40	2N1506	40	2N2783	40	MHT4451	45	2N841	45	2N2524
40	2N1511	40	2N2874	40	MHT4453	45	2N842	45	2N2604
40	2N1513	40	2N2897	40	MHT4455	45	2N843	45	2N2605
40	2N1518	40	2N2900	40	MHT4511	45	2N929	45	2N2639
40	2N1520	40	2N2904	40	MHT4512	45	2N929A	45	2N2640
40	2N1522	40	2N2905	40	MHT4513	45	2N930	45	2N2641
40	2N1531	40	2N2906	40	MHT4551	45	2N930A	45	2N2642
40	2N1531A	40	2N2907	40	MHT4553	45	2N1015A	45	2N2643
40	2N1536	40	2N2909	40	MHT4555	45	2N1016A	45	2N2644
40	2N1536A	40	2N2947	40	MHT6011	45	2N1067	45	2N2673
40	2N1541	40	2N2949	40	MHT6013	45	2N1068	45	2N2674
40	2N1541	40	2N2950	40	MHT6015	45	2N1069	45	2N2675
40	2N1541A	40	2N2951	40	MHT7401	45	2N1069	45	2N2676
40	2N1546	40	2N2952	40	OC25	45	2N1070	45	2N2731
40	2N1546	40	2N3053/40053	40	PT530A	45	2N1070	45	2N2734
40	2N1546A	40	2N3110	40	PT613	45	2N1132B	45	2N2737
40	2N1551	40	2N3214	40	RD-2521A	45	2N1146A	45	2N3022
40	2N1551	40	2S302	40	TI480	45	2N1147A	45	2N3025
40	2N1551A	40	2S322	40	ZT696	45	2N1157	45	2N3043
40	2N1555	40	2S711	40	ZT697	45	2N1164	45	2N3044
40	2N1555	40	2S712	40	ZT1479	45	2N1164	45	2N3045
40	2N1555A	40	2SB141	40	ZT1480	45	2N1165	45	2N3046
40	2N1559	40	2SB274	40	ZT1481	45	2N1165 USN	45	2N3047
40	2N1559	40	2SB319	40	ZT1482	45	2N1186	45	2N3048
40	2N1559A	40	2SB320	40	ZT1483	45	2N1187	45	2S102
40	2N1605A	40	2SD120	40	ZT1485	45	2N1188	45	2S103
40	2N1605A	40	2SD122	40	ZT1487	45	2N1209	45	2S104
40	2N1611	40	2SD124	40	ZT1489	45	2N1261	45	2SB332
40	2N1612	40	2T3021	40	ZT1511	45	2N1261	45	2SC167
40	2N1613	40	3N48	40	ZT1513	45	2N1262	45	10C573
40	2N1613	40	3N52	40	ZT1700	45	2N1262	45	10C574
40	2N1659	40	11C1B1	45	2N173	45	2N1263	45	41N2
40	2N1700	40	11C1F1	45	2N268	45	2N1263	45	42N2
40	2N1701	40	11C5B1	45	2N332	45	2N1325	45	AD131
40	2N1702	40	11C5F1	45	2N332	45	2N1326	45	ASY48
40	2N1703	40	11C11B1	45	2N332A	45	2N1335	45	AUY19
40	2N1768	40	11C11F1	45	2N333	45	2N1336	45	AUY22
40	2N1905	40	11C201B20	45	2N333	45	2N1371	45	CK790
40	2N1906	40	11C205B20	45	2N333A	45	2N1373	45	CTP1136
40	2N1907	40	11C211B20	45	2N334	45	2N1375	45	CTP1730
40	2N1924	40	11C551	45	2N334	45	2N1377	45	CTP1733
40	2N1925	40	11C553	45	2N334A	45	2N1704	45	MHT1803
40	2N1926	40	11C702	45	2N335	45	2N1988	45	MHT1903
40	2N1971	40	130-04	45	2N335	45	2N1988	45	MHT2003
40	2N2192	40	147T1	45	2N335A	45	2N1989	45	MP501
40	2N2192	40	151-04	45	2N336	45	2N1989	45	MP501A
40	2N2192A	40	152-04	45	2N336	45	2N2077	45	MP505
40	2N2192B	40	153-04	45	2N336A	45	2N2077A	45	MP505A
40	2N2194	40	154-04	45	2N392	45	2N2081	45	PT600
40	2N2194A	40	156-04	45	2N418	45	2N2081A	45	PT601
40	2N2194B	40	163-04	45	2N442	45	2N2106	45	RT5003
40	2N2288	40	164-04	45	2N443	45	2N2107	45	RT5004
40	2N2291	40	ADZ11	45	2N458B	45	2N2108	45	ST40
40	2N2338	40	AR-5	45	2N472	45	2N2139	45	ST41
40	2N2339	40	AR-6	45	2N472A	45	2N2139A	45	ST42

MAX V_{CE}	TRANSISTOR	MAX V_{CE}	TRANSISTOR	MAX V_{CE}	TRANSISTOR	MAX V_{CE}	TRANSISTOR	MAX V_{CE}	TRANSISTOR
45	ST44	50	2N1816	50	PT900	60	2N343	60	2N1116
45	ST45	50	2N1823	50	ZT1613	60	2N343	60	2N1117
45	ST401	50	2N1830	50	ZT1711	60	2N343	60	2N1159
45	ST4201	50	2N1841	55	2N174	60	2N389	60	2N1160
45	ST4203	50	2N1899	55	2N174	60	2N389	60	2N1166
45	T-1605	50	2N1900	55	2N339	60	2N463 USN	60	2N1167
45	TF78/60	50	2N1901	55	2N339	60	2N497	60	2N1176B
45	TI490	50	2N1902	55	2N443	60	2N497	60	2N1176B
45	ZT22	50	2N1903	55	2N539	60	2N497	60	2N1202
45	ZT23	50	2N1904	55	2N539	60	2N497A	60	2N1202
45	ZT24	50	2N1908	55	2N539A	60	2N538	60	2N1203
45	ZT42	50	2N1921	55	2N539A	60	2N538	60	2N1206
45	ZT43	50	2N1921	55	2N540	60	2N538A	60	2N1208
45	ZT44	50	2N1970	55	2N540	60	2N538A	60	2N1210
45	ZT83	50	2N2015	55	2N540A	60	2N545	60	2N1212
45	ZT84	50	2N2109	55	2N540A	60	2N547	60	2N1226
45	ZT2270	50	2N2116	55	2N574	60	2N549	60	2N1232
48	OC29	50	2N2123	55	2N575A	60	2N551	60	2N1233
48	OC35	50	2N2130	55	2N1022A	60	2N574A	60	2N1242
50	2N297A	50	2N2193	55	2N1099	60	2N618	60	2N1243
50	2N301	50	2N2193A	55	2N1136A	60	2N629	60	2N1358A
50	2N301A	50	2N2193B	55	2N1137A	60	2N656	60	2N1412 USN
50	2N327A	50	2N2207	55	2N1138A	60	2N656	60	2N1474
50	2N330A	50	2N2226	55	2N1362	60	2N656	60	2N1474
50	2N534	50	2N2230	55	2N1363	60	2N656A	60	2N1474A
50	2N575	50	2N2351	55	2N1480	60	2N677B	60	2N1474A
50	2N915	50	2N2351A	55	2N1481	60	2N678B	60	2N1474A
50	2N915	50	2N2490	55	2N1482	60	2N698	60	2N1475
50	2N945	50	2N2511	55	2N1484	60	2N698	60	2N1475
50	2N945	50	2N2739	55	2N1485	60	2N698	60	2N1475
50	2N1008B	50	2N2745	55	2N1486	60	2N699	60	2N1483
50	2N1021	50	2N2751	55	2N1488	60	2N699	60	2N1504
50	2N1021A	50	2N2757	55	2N1488	60	2N719	60	2N1504/10
50	2N1022	50	2N2763	55	2N1490	60	2N719A	60	2N1519
50	2N1040	50	2N2769	55	2N1510	60	2N720	60	2N1521
50	2N1044	50	2N2832	55	2N1512	60	2N735	60	2N1523
50	2N1046	50	2N2869	55	2N1514	60	2N736	60	2N1533
50	2N1046A	50	2N2870	55	2N1769	60	2N736A	60	2N1538
50	2N1046B	50	2N3081	55	2N2076	60	2N742	60	2N1543
50	2N1056	50	2SC117	55	2N2076A	60	2N742A	60	2N1543
50	2N1057	50	2SC119	55	2N2080	60	2N754	60	2N1548
50	2N1072 USA	50	3N46	55	2N2080A	60	2N756A	60	2N1548
50	2N1132B	50	4C43	55	2N2266	60	2N757A USA	60	2N1564
50	2N1146C	50	11C3B1	55	2N2267	60	2N758A	60	2N1564
50	2N1147C	50	11C3F1	55	2N2268	60	2N759A USA	60	2N1565
50	2N1157A	50	11C203B20	55	2N2269	60	2N759B	60	2N1565
50	2N1259	50	11C704	55	2N3054	60	2N760A	60	2N1566
50	2N1296	50	109UA	55	2SB333	60	2N760A USA	60	2N1566
50	2N1339	50	109WA	55	2SD121	60	2N760B	60	2N1566A
50	2N1340	50	109XA	55	2SD123	60	2N844	60	2N1609
50	2N1341	50	151-05	55	2SD125	60	2N870	60	2N1610
50	2N1439	50	152-05	55	AUY10	60	2N870	60	2N1616
50	2N1440	50	153-05	55	DS-502	60	2N870	60	2N1616
50	2N1490	50	154-05	55	T-1602	60	2N871	60	2N1647
50	2N1506A	50	163-05	55	ZT1484	60	2N871	60	2N1649
50	2N1506A	50	164-05	55	ZT1486	60	2N871	60	2N1651
50	2N1532	50	AR-7	55	ZT1488	60	2N910	60	2N1666
50	2N1532A	50	AR-8	55	ZT1490	60	2N910	60	2N1675
50	2N1537	50	AR-8A	55	ZT1512	60	2N911	60	2N1714
50	2N1537A	50	AR-9	55	ZT1514	60	2N911	60	2N1716
50	2N1542	50	AR-10	60	2G210	60	2N912	60	2N1718
50	2N1542	50	AR-11	60	2G221	60	2N912	60	2N1718
50	2N1542A	50	ASY67	60	2G224	60	2N927	60	2N1720
50	2N1547	50	BDY10	60	2G227	60	2N928	60	2N1720
50	2N1547	50	CTP1503	60	2G230	60	2N1008B	60	2N1889
50	2N1547A	50	CTP1553	60	2G377	60	2N1008B M	60	2N1890
50	2N1552	50	CTP3503	60	2N158	60	2N1015A	60	2N1973
50	2N1552	50	CTP3553	60	2N158	60	2N1016A	60	2N1973
50	2N1552A	50	FSP-289-1	60	2N158A	60	2N1031B	60	2N1974
50	2N1556	50	H200E	60	2N158A	60	2N1032B	60	2N1974
50	2N1556A	50	MHT4502	60	2N243	60	2N1041	60	2N1975
50	2N1560	50	MHT6001	60	2N244	60	2N1041 USN	60	2N1975
50	2N1560A	50	NS664	60	2N284A	60	2N1045	60	2N2017
50	2N1658	50	NS668	60	2N339A	60	2N1067	60	2N2060
50	2N1809	50	OC123	60	2N342	60	2N1068	60	2N2140

MAX V_{CE}	TRANSISTOR	MAX V_{CE}	TRANSISTOR	MAX V_{CE}	TRANSISTOR	MAX V_{CE}	TRANSISTOR	MAX V_{CE}	TRANSISTOR
60	2N2140A	60	2SB82	60	MHT7402	75	2N2159A	80	2N1893
60	2N2145	60	2SB205	60	MHT8002	75	2N2437	80	2N1893A
60	2N2145A	60	2SB206	60	MP502	75	2N2438	80	2N1922
60	2N2154	60	2SB211	60	MP502A	75	2N2439	80	2N1922
60	2N2154A	60	2SB212	60	MP506	75	2N2493	80	2N2150
60	2N2158	60	2SB334	60	MP506A	75	2N2833	80	2N2151
60	2N2158A	60	2SC118	60	NS478	75	2S742	80	2N2173
60	2N2223	60	7B1	60	NS479	75	2S745	80	2N2243
60	2N2223A	60	7B2	60	NS480	75	2SB202	80	2N2243A
60	2N2283	60	7C1	60	OC36	75	2SB207	80	2N2289
60	2N2285	60	7C2	60	SP8401	75	2SB213	80	2N2292
60	2N2357	60	7D1	60	SP8402	75	2SB214	80	2N2293
60	2N2403	60	7D2	60	ST400	75	MP503A	80	2N2295
60	2N2404	60	7E1	60	ST440	75	MP507	80	2N2358
60	2N2459	60	7E2	60	ST450	75	MP507A	80	2N2364
60	2N2460	60	7F1	60	ST1504	75	OC20	80	2N2364A
60	2N2461	60	7F2	60	ST4150	75	OC450	80	2N2435
60	2N2462	60	7G1	60	TI486	75	OC450K	80	2N2436
60	2N2463	60	7G2	60	TI487	75	PADT50	80	2N2509
60	2N2464	60	11B560	65	2N343B	75	ST4202	80	2N2518
60	2N2465	60	31N2	65	2N1100	75	ST4202	80	2N2519
60	2N2466	60	32N2	65	2N1136C	75	U15A	80	2N2525
60	2N2468	60	38N2	65	2N1137B	75	U15B	80	2N2526
60	2N2483	60	39N2	65	2N1138B	80	2G222	80	2N2598
60	2N2484	60	40N2	65	2N1146B	80	2G228	80	2N2599
60	2N2515	60	130-06	65	2N1147B	80	2G231	80	2N2600
60	2N2516	60	151-06	65	2N1342	80	2N420A	80	2N2633
60	2N2520	60	152-06	65	2N1412	80	2N424	80	2N2638
60	2N2512	60	153-06	65	2N2016	80	2N424	80	2N2658
60	2N2522	60	154-06	65	2N2075	80	2N698	80	2N2698
60	2N2590	60	156-06	65	2N2075A	80	2N698	80	2N2813
60	2N2591	60	163-06	65	2N2079	80	2N699	80	2N2814
60	2N2592	60	164-06	65	2N2079A	80	2N699B	80	2N2879
60	2N2593	60	AD132	65	2N2087	80	2N720	80	2N2880
60	2N2595	60	ADY26	65	2N2102	80	2N720A	80	2N2887
60	2N2596	60	ADZ12	65	2N2141	80	2N735A	80	2N2940
60	2N2597	60	AUY20	65	2N2141A	80	2N736B	80	2N2983
60	2N2601	60	BCY11	65	2N2146	80	2N738	80	2N2985
60	2N2602	60	BCZ12	65	2N2146A	80	2N738	80	2N2987
60	2N2603	60	CK311	65	2N2210	80	2N739	80	2N2989
60	2N2632	60	CK312	65	2N2492	80	2N739	80	2N2991
60	2N2637	60	CK313	65	2N2510	80	2N739A	80	2N2993
60	2N2657	60	CK314	65	PT850	80	2N740	80	2N3036
60	2N2697	60	CK315	65	PT850A	80	2N740	80	2N3119
60	2N2730	60	CTP1500	70	2N420	80	2N740A	80	2N3212
60	2N2733	60	CTP3500	70	2N677C	80	2N755	80	2N3262
60	2N2736	60	DT1111	70	2N678C	80	2N845	80	2S301
60	2N2811	60	DT1121	70	2N1031C	80	2N946	80	2S321
60	2N2812	60	DT4111	70	2N1032C	80	2N946	80	11B556
60	2N2877	60	DT4121	70	2N1120	80	2N1011	80	11C10B1
60	2N2878	60	FM870	70	2N1196	80	2N1015B	80	11C10F1
60	2N2895	60	FM871	70	2N1197	80	2N1016B	80	11C210B20
60	2N2898	60	FSP-166	70	2N1203	80	2N1073A	80	11C710
60	2N2904A	60	FSP-166-1	70	2N1437	80	2N1146C	80	34N2
60	2N2905A	60	H15A	70	2N1438	80	2N1147C	80	35N2
60	2N2906A	60	HA7524	70	2N1617	80	2N1211	80	130-08
60	2N2907A	60	HA7528	70	2N3037	80	2N1275	80	151-08
60	2N2912	60	HA7531	70	2N3055	80	2N1275	80	152-08
60	2N2939	60	HA7534	70	151-07	80	2N1572	80	150-08
60	2N3023	60	HA7538	70	152-07	80	2N1572	80	154-08
60	2N3026	60	LT-11	70	153-07	80	2N1573	80	156-08
60	2N3038	60	LT-12	70	154-07	80	2N1573	80	163-08
60	2N3108	60	LT-13	70	164-07	80	2N1574	80	164-08
60	2N3118	60	LT-14	70	BUY13	80	2N1574	80	BFY13
60	2N3213	60	LT-15	70	DT1512	80	2N1617	80	BSY55
60	2N3229	60	MHT1802	70	DT1522	80	2N1617	80	BSY56
60	2N3264	60	MHT1902	70	TI481	80	2N1618	80	BUY12
60	2N3266	60	MHT2002	75	2N630	80	2N1648	80	DPT657
60	2S017	60	MHT4401	75	2N1364	80	2N1650	80	H15B
60	2S019	60	MHT4414	75	2N1365	80	2N1722	80	HA7631
60	2S025	60	MHT4415	75	2N1465	80	2N1723	80	HA7633
60	2S301	60	MHT4416	75	2N1466	80	2N1724	80	HA7731
60	2S721	60	MHT4514	75	2N2155	80	2N1725	80	HA7733
60	2S723	60	MHT4515	75	2N2155A	80	2N1751	80	MHM2001
60	2SB81	60	MHT4516	75	2N2159	80	2N1893	80	MHM2101

MAX V_{CE}	TRANSISTOR	MAX V_{CE}	TRANSISTOR	MAX V_{CE}	TRANSISTOR	MAX V_{CE}	TRANSISTOR	MAX V_{CE}	TRANSISTOR
80	MHT4417	100	2N2110	110	HA7525	200	2N2133		
80	MHT4418	100	2N2117	110	HA7535	200	2N2229		
80	MHT4419	100	2N2124	115	2S743	200	2N2233		
80	MHT4452	100	2N2131	115	2S746	200	2N2742		
80	MHT4454	100	2N2201	120	2N1073B	200	2N2748		
80	MHT4456	100	2N2202	120	2N1653	200	2N2754		
80	MHT4517	100	2N2203	120	2N2212	200	2N2760		
80	MHT4518	100	2N2204	120	2N2287	200	2N2766		
80	MHT4519	100	2N2227	120	2N2290	200	2N2772		
80	MHT4552	100	2N2231	120	2N2294	200	109UD		
80	MHT4554	100	2N2284	120	2N2296	200	109WD		
80	MHT4556	100	2N2286	120	2N2359	200	109XD		
80	MHT6012	100	2N2443	120	2N2527	200	153-20		
80	MHT6014	100	2N2469	120	2N2984	200	154-20		
80	MHT6016	100	2N2634	120	2N2986	200	163-20		
80	MHT7403	100	2N2740	120	153-12	200	164-20		
80	MHT8003	100	2N2746	120	154-12	200	XT1B		
80	OC28	100	2N2752	120	163-12	200	XT2B		
80	SP8400	100	2N2758	120	164-12	250	2N1015E		
80	ST1505	100	2N2764	125	2N341	250	2N1016E		
80	ZT86	100	2N2770	125	2N341A	250	2N1813		
85	2N340	100	2N2834	125	2N1207	250	2N2113		
85	2N340	100	2N2941	125	2N1655	250	2N2761		
85	2N340A	100	2N2988	125	2N1656	265	XT1C		
85	2N341	100	2N2990	125	2S305	265	XT2C		
85	2N342A	100	2N2992	125	2S305	300	2N1814		
85	2N342B	100	2N2994	125	2S325	300	2N2114		
90	2N2405	100	2S018	125	OC480	350	XT1D		
90	2N3263	100	2S020	125	OC480K	350	XT2D		
90	2N3265	100	2S026	135	XT1A	400	2N2580		
90	151-09	100	2S722	135	XT2A	400	2N2581		
90	152-09	100	2S724	140	153-14	400	DTS-400		
90	153-09	100	7C3	140	154-14	500	2N2582		
90	154-09	100	7D3	140	163-14	500	2N2583		
90	163-07	100	7E3	140	164-14				
90	163-09	100	7F3	150	2N1015C				
90	164-09	100	7F4	150	2N1016C				
90	HA7529	100	7G3	150	2N1811				
90	HA7539	100	7G4	150	2N1818				
95	2N2896	100	109UB	150	2N1825				
95	2N2899	100	109WB	150	2N1832				
100	2N498	100	109XB	150	2N2111				
100	2N498	100	130-10	150	2N2118				
100	2N498	100	151-10	150	2N2125				
100	2N498A	100	152-10	150	2N2132				
100	2N597	100	153-10	150	2N2228				
100	2N598	100	154-10	150	2N2232				
100	2N599	100	156-10	150	2N2551				
100	2N600	100	163-10	150	2N2741				
100	2N601	100	164-10	150	2N2747				
100	2N611	100	BDY11	150	2N2753				
100	2N657	100	BFY14	150	2N2759				
100	2N657	100	DT1112	150	2N2765				
100	2N657A	100	DT1122	150	2N2771				
100	2N1015B	100	DT4112	150	109UC				
100	2N1016B	100	MHT4402	150	109WC				
100	2N1123	100	ZT91	150	109XC				
100	2N1476	100	ZT92	160	2N2528				
100	2N1476	105	2N398	160	153-16				
100	2N1477	105	2N398	160	154-16				
100	2N1477	105	2N398A	160	163-16				
100	2N1618	105	2N398B	160	164-16				
100	2N1618	105	2N398 USN	180	153-18				
100	2N1620	105	2N2042	180	154-18				
100	2N1652	105	2N2042A	180	163-18				
100	2N1715	105	2N2043	180	164-18				
100	2N1717	105	2N2043A	200	2N1015D				
100	2N1719	105	2SB68	200	2N1016D				
100	2N1719	105	2SB275	200	2N1812				
100	2N1721	105	2SB276	200	2N1819				
100	2N1721	110	2N1015C	200	2N1826				
100	2N1810	110	2N1016C	200	2N1833				
100	2N1817	110	2N1234	200	2N2112				
100	2N1824	110	2N1244	200	2N2119				
100	2N1831	110	2N2008	200	2N2126				

MAX V_{CB}	TRANSISTOR	MAX V_{CB}	TRANSISTOR	MAX V_{CB}	TRANSISTOR	MAX V_{CB}	TRANSISTOR	MAX V_{CB}	TRANSISTOR
1.5	2N781	10	2N233	12	2N2167	15	2N554	15	2N2401
3.0	2N257	10	2N1010	12	2N2400	15	2N558	15	2N2415
3.0	OC704	10	2N1119	12	2N2894	15	2N559 USA	15	2N2416
4.5	2N232	10	2N1119	12	2SA30	15	2N588	15	2N2455
4.5	2N1676	10	2N1119	12	2SA31	15	2N605	15	2N2456
4.5	2N1677	10	2N1785	12	2SA254	15	2N606	15	2N2475
5.0	2N344	10	2N1786	12	2SA255	15	2N607	15	2N2475/46
5.0	2N345	10	2N2280	12	2SB199	15	2N608	15	2N2475/51
5.0	2N346	10	2N2378	12	2SB321	15	2N695	15	2N2728
5.0	2N1411	10	2SA247	12	2SB322	15	2N705	15	2N2784
5.0	BFY22	10	2SB39	12	2SB323	15	2N705	15	2N2784/46
5.0	BFY23	10	2SB73	12	154T1	15	2N705	15	2N2784/51
5.0	BFY24	10	2SB302	12	155T1	15	2N705 USN	15	2N2912
6.0	2N240	10	C103	12	156T1	15	2N709	15	2N2996
6.0	2N393	10	C402	12	157T1	15	2N709	15	2N2998
6.0	2N393	10	GT-760R	12	C118	15	2N709A	15	2N2999
6.0	2N864	10	GT-761R	12	C119	15	2N709/46	15	2S131
6.0	2N1247	10	MA286	12	C202	15	2N709A/46	15	2S304
6.0	2N1247	10	MA287	12	FSP-164	15	2N709/51	15	2S304
6.0	2N1248	10	MA288	12	GT-14H	15	2N709A/51	15	2S307
6.0	2N1427	10	MHT2101	12	GT-20H	15	2N710	15	2S324
6.0	2N1429	10	MHT2205	12	GT-66	15	2N710	15	2S327
6.0	2N1429	10	MHT2305	12	GT-81H	15	2N711A	15	2SA121
6.0	2N1429	10	OC44	12	GT-210H	15	2N711A	15	2SA122
6.0	2N2175	10	OC45	12	GT-222	15	2N741	15	2SA123
6.0	2N2176	10	OC65	12	GT-759R	15	2N779A	15	2SA124
6.0	2N2177	10	OC66	12	SYL2189	15	2N828	15	2SA125
6.0	2N2178	10	OC81	12	T-2122	15	2N828	15	2SA276
6.0	2N2451	10	OC430	13	2N409	15	2N829	15	2SC73
6.0	2S306	10	OC430K	13	2N410	15	2N846A	15	2SC75
6.0	2S326	10	OC460	13	2N411	15	2N862	15	2SC76
6.0	2SA105	10	OC460K	13	2N412	15	2N863	15	2SC78
6.0	2SA106	10	OC463	13	2N794	15	2N907	15	2SC677
6.0	2SA107	10	OC463K	13	2N795	15	2N960	15	2T73
6.0	2SA136	10	OC466	13	2N796	15	2N964	15	2T75
6.0	2SA137	10	OC466K	13	2N1300	15	2N964	15	2T76
6.0	GT-762	10	OC468	13	2N1301	15	2N964A	15	2T77
6.0	GT-762R	10	OC468K	13	2N1683	15	2N968	15	2T78
6.0	GT-763	10	OC702B	13	2N1754	15	2N972	15	2T201
6.0	ST1026	10	SF-T184	14	2N1750	15	2N976	15	2T203
6.0	ST1050	12	2N107	14	159T1	15	2N983	15	2T205A
6.0	ST1051	12	2N318	14	160T1	15	2N985	15	4D24
6.0	T-1166	12	2N482	14	161T1	15	2N996	15	4D25
7.0	2N971	12	2N483	14	162T1	15	2N1121	15	4D26
7.0	2N975	12	2N484	15	2G101	15	2N1122	15	101A
7.0	2N984	12	2N484	15	2G102	15	2N1122A	15	101B
7.0	2N2256	12	2N711	15	2G103	15	2N1122A	15	101M
7.0	2N2257	12	2N768	15	2G104	15	2N1139	15	201A
7.0	2N2258	12	2N769	15	2N78	15	2N1176	15	201B
7.0	2N2259	12	2N782	15	2N168A	15	2N1190	15	201M
7.0	OC57	12	2N955	15	2N169	15	2N1228	15	AFZ12
7.0	OC58	12	2N955A	15	2N255A	15	2N1229	15	BSY18
7.0	OC59	12	2N961	15	2N292	15	2N1238	15	BSY62
7.0	OC60	12	2N961	15	2N293	15	2N1239	15	BSY63
8.0	C302	12	2N962	15	2N311	15	2N1273	15	C102
8.0	GT-229	12	2N962	15	2N312	15	2N1417	15	CST1739
8.5	2N33	12	2N963	15	2N448	15	2N1500	15	CST1740
9.0	2N1086	12	2N963	15	2N449	15	2N1646	15	CST1741
9.0	2N1086A	12	2N965	15	2N470	15	2N1787	15	CST1742
9.0	2N1087	12	2N965	15	2N473	15	2N1960	15	CST1743
9.0	2SA270	12	2N966	15	2N476	15	2N1992	15	GET114
9.0	2SA271	12	2N966	15	2N478	15	2N2163	15	GET871
9.0	2SA272	12	2N967	15	2N501	15	2N2166	15	GET872
9.0	2SB168	12	2N967	15	2N501/18	15	2N2169	15	GET873
9.0	2SB169	12	2N969	15	2N501A	15	2N2170	15	GET874
9.0	GT40	12	2N970	15	2N501A	15	2N2225	15	GET875
9.0	GT41	12	2N973	15	2N519	15	2N2276	15	GET881
9.0	GT42	12	2N974	15	2N520	15	2N2278	15	GET882
9.0	GT43	12	2N1028	15	2N520	15	2N2278	15	GET885
10	2N128	12	2N1028	15	2N521	15	2N2332	15	GET887
10	2N129	12	2N1378	15	2N522	15	2N2333	15	GET888
10	2N137	12	2N1380	15	2N523	15	2N2370	15	GET889
10	2N175	12	2N1752	15	2N523A	15	2N2371	15	GET890
10	2N220	12	2N1961	15	2N541	15	2N2372	15	GT-760
10	2N229	12	2N2164	15	2N554	15	2N2373	15	GT-761

MAX V_{CB}	TRANSISTOR	MAX V_{CB}	TRANSISTOR	MAX V_{CB}	TRANSISTOR	MAX V_{CB}	TRANSISTOR	MAX V_{CB}	TRANSISTOR
15	GT-947	16	OC16	18	2SC11	20	2N634	20	2N2796
15	HA7522	16	OC30	18	2SC13	20	2N635	20	2SA75
15	HA7526	16	OC41	18	2SC14	20	2N636	20	2SA80
15	NS731	16	OC42	18	2SC28	20	2N649	20	2SA108
15	HA7532	16	OC72	18	2SC71	20	2N741A	20	2SA109
15	HA7536	16	2-OC72	18	2SC72	20	2N743	20	2SA110
15	MA112	16	OC81D	18	GT-123	20	2N744	20	2SA111
15	MA113	18	2N106	18	GT-759	20	2N797	20	2SA112
15	MA114	18	2N193	18	GT-764	20	2N827	20	2SA208
15	MA115	18	2N194A	18	SF.T229	20	2N851	20	2SA209
15	MA116	18	2N212	18	SF.T306	20	2N852	20	2SA210
15	MA117	18	2N233A	18	SF.T307	20	2N914/46	20	2SA229
15	NS732	18	2N322	18	SF.T308	20	2N947	20	2SA230
15	OC43	18	2N322	20	2G301	20	2N979	20	2SA233
15	OC44	18	2N323	20	2G302	20	2N980	20	2SA234
15	OC45	18	2N323	20	2G306	20	2N982	20	2SA235
15	OC202	18	2N324	20	2G308	20	2N990	20	2SA239
15	OC702A	18	2N324	20	2G309	20	2N991	20	2SA256
15	OC740	18	2N508	20	2G371	20	2N992	20	2SA257
15	OC740M	18	2N544	20	2G374	20	2N995	20	2SA258
15	OC740Q	18	2N581	20	2G381	20	2N1008	20	2SA259
15	SF.T163	18	2N583	20	2G401	20	2N1008	20	2SA266
15	SF.T237	18	2N711B	20	2G402	20	2N1059	20	2SA267
15	SF.T337	18	2N1024	20	2G414	20	2N1101	20	2SA268
15	ST9	18	2N1024	20	2G415	20	2N1115	20	2SA269
15	ST10	18	2N1027	20	2G416	20	2N1158	20	2SA288
15	ST11	18	2N1027	20	2G417	20	2N1158A	20	2SA289
15	ST12	18	2N1097	20	2N36	20	2N1204	20	2SA290
15	ST13	18	2N1098	20	2N37	20	2N1204	20	2SB34
15	ST14	18	2N1853	20	2N38	20	2N1204A	20	2SB52
15	ST15	18	2N1854	20	2N78A	20	2N1217	20	2SB51
15	ST3030	18	2N2402	20	2N94	20	2N1251	20	2SB156A
15	SYL2120	18	2N2711	20	2N94A	20	2N1319	20	2SB261
15	T-2038	18	2N2712	20	2N123	20	2N1431	20	2SB262
15	T-2039	18	2N2713	20	2N123/5	20	2N1494	20	2SB263
15	T-2040	18	2N2714	20	2N123A	20	2N1494	20	2SC157
15	TF49	18	2N2715	20	2N135	20	2N1494A	20	2SC158
15	TIX316	18	2N2716	20	2N136	20	2N1499A	20	2SC159
15	ZT709	18	2SA28	20	2N306	20	2N1515	20	2SC160
15	ZT2475	18	2SA37	20	2N315	20	2N1516	20	2SD33
16	2N139	18	2SA38	20	2N316	20	2N1517	20	2T321
16	2N140	18	2SA39	20	2N317	20	2N1694	20	2T322
16	2N218	18	2SA49	20	2N322	20	2N1726	20	2T323
16	2N219	18	2SA50	20	2N323	20	2N1727	20	2T324
16	2N1144	18	2SA51	20	2N324	20	2N1728	20	501T1
16	2N1145	18	2SA52	20	2N329A	20	2N1742	20	503T1
16	2SA12	18	2SA53	20	2N356	20	2N1743	20	504T1
16	2SA15	18	2SA57	20	2N357	20	2N1744	20	505T1
16	2SA17	18	2SA58	20	2N357	20	2N1745	20	508T1
16	2SA35	18	2SA60	20	2N358	20	2N1746	20	AD121
16	2SA36	18	2SA65	20	2N370	20	2N1747	20	ACY22
16	2SA64	18	2SA66	20	2N371	20	2N1864	20	AF114
16	2SB48	18	2SA67	20	2N372	20	2N1865	20	AF114
16	2SB49	18	2SA72	20	2N405	20	2N1868	20	AF115
16	2SB50	18	2SA73	20	2N406	20	2N1996	20	AF115
16	2SB155	18	2SA76	20	2N407	20	2N2048	20	AF116
16	2SB156	18	2SA77	20	2N408	20	2N2061	20	AF116
16	2T311	18	2SA92	20	2N450	20	2N2062	20	AF117
16	2T312	18	2SA93	20	2N502	20	2N2089	20	AF117
16	2T313	18	2SA175	20	2N503	20	2N2090	20	AF124
16	2T314	18	2SA211	20	2N508	20	2N2091	20	AF124
16	2T315	18	2SA236	20	2N519A	20	2N2168	20	AF125
16	DS-1	18	2SA237	20	2N520A	20	2N2172	20	AF125
16	DS-4	18	2SA277	20	2N521A	20	2N2271	20	AF126
16	DS-5	18	2SA278	20	2N522A	20	2N2360	20	AF126
16	DS-6	18	2SA282	20	2N535	20	2N2361	20	AF127
16	DS-7	18	2SA283	20	2N576	20	2N2362	20	AF127
16	DS-9	18	2SA284	20	2N578	20	2N2398	20	AF139
16	DS-11	18	2SA304	20	2N579	20	2N2399	20	AFY16
16	DS-12	18	2SA305	20	2N580	20	2N2469	20	AFZ11
16	DS-19	18	2SB90	20	2N592	20	2N2482	20	ASZ21
16	DS-21	18	2SB91	20	2N594	20	2N2494	20	ASZ21
16	DS-46	18	2SB97	20	2N595	20	2N2569	20	C101
16	GET7	18	2SB257	20	2N596	20	2N2570	20	CA2D2
16	GET571	18	2SB290	20	2N602	20	2N2717	20	CTP1108

MAX V_{CB}	TRANSISTOR	MAX V_{CB}	TRANSISTOR	MAX V_{CB}	TRANSISTOR	MAX V_{CB}	TRANSISTOR	MAX V_{CB}	TRANSISTOR
20	CTP1109	25	2N227	25	2N941	25	2N2807	25	GT-34
20	DS-3	25	2N241	25	2N942	25	2N2826	25	GT-35
20	DS-14	25	2N241A	25	2N993	25	2N2861	25	GT44
20	DS-16	25	2N256A	25	2N1090	25	2N2862	25	GT45
20	DS-41	25	2N270	25	2N1091	25	2N2865	25	GT46
20	FSP-270-1	25	2N291	25	2N1091	25	2N2938	25	GT47
20	GT-758	25	2N315A	25	2N1114	25	2N3049	25	GT-74
20	GT-792	25	2N316A	25	2N1118	25	2N3050	25	GT-75
20	GT-903	25	2N317A	25	2N1118	25	2N3051	25	GT-81
20	GT-904	25	2N320	25	2N1118	25	2S101	25	GT-81HS
20	GT-905	25	2N321	25	2N1118A	25	2S302	25	GT-82
20	GT-948	25	2N373	25	2N1118A	25	2S303	25	GT-83
20	GT-949	25	2M374	25	2N1143	25	2S303	25	GT-87
20	HA7599	25	2N377	25	2N1169	25	2S323	25	GT-88
20	OC70	25	2N385	25	2N1198	25	2S701	25	GT-109
20	OC139	25	2N388	25	2N1213	25	2S702	25	GT-122
20	OC140	25	2N388	25	2N1214	25	2S703	25	GT-153
20	OC141	25	2N388 USN	25	2N1215	25	2SA40	25	GT-167
20	OC169	25	2N404	25	2N1216	25	2SA212	25	GT-269
20	OC170	25	2N404	25	2N1274	25	2SA217	25	GT-1658
20	OC170	25	2N404	25	2N1302	25	2SB43	25	HA9048
20	OC171	25	2N404	25	2N1304	25	2SB44	25	HA9049
20	OC171	25	2N404 USAF	25	2N1306	25	2SB46	25	OC200
20	OC465	25	2N445A	25	2N1308	25	2SB47	25	OC201
20	OC465K	25	2N446A	25	2N1309	25	2SB54	25	OC201
20	SF.T316	25	2N447A	25	2N1370	25	2SB56	25	OC700
20	SF.T317	25	2N519	25	2N1372	25	2SB75	25	OC700A
20	SF.T319	25	2N556	25	2N1374	25	2SB77	25	OC700B
20	SF.T320	25	2N557	25	2N1376	25	2SB80	25	OC702
20	SF.T354	25	2N582	25	2N1379	25	2SB89	25	OC742
20	SF.T357	25	2N582	25	2N1381	25	2SB94	25	OC742M
20	SF.T358	25	2N584	25	2N1382	25	2SB189	25	OC742Q
20	ST3031	25	2N585	25	2N1383	25	2SB367	25	PADT30
20	T-2028	25	2N634A	25	2N1404	25	2SB370	25	PT720
20	T-2029	25	2N635A	25	2N1404	25	2SC16	25	ZT706
20	T-2030	25	2N636A	25	2N1561	25	2SC16A	25	ZT1708
20	TI482	25	2N647	25	2N1562	25	2SC17	25	ZT2205
20	TI485	25	2N658	25	2N1605	25	2SC17A	25	ZT2206
20	TV-1	25	2N658	25	2N1605	25	2SC18	30	2G303
20	ZT20	25	2N659	25	2N1643	25	2SC89	30	2G304
20	ZT21	25	2N659	25	2N1643	25	2SC90	30	2G376
20	ZT40	25	2N660	25	2N1684	25	2SC91	30	2G382
20	ZT41	25	2N660	25	2N1692	25	2SC103	30	2N79
20	ZT50	25	2N661	25	2N1693	25	2SC104	30	2N101/13
21	2SA18	25	2N661	25	2N1708	25	2SC170	30	2N102/13
24	2N370/33	25	2N662	25	2N1748	25	2SC171	30	2N104
24	2N371/33	25	2N662	25	2N1748A	25	2SC172	30	2N117
24	2N372/33	25	2N679	25	2N1781	25	2SC179	30	2N118
24	2N544/33	25	2N700	25	2N1808	25	2SC180	30	2N119
24	2N1425	25	2N700A	25	2N1840	25	2SC181	30	2N120
24	2N1426	25	2N700A SIG.C	25	2N1917	25	2SD43	30	2N156
24	2N1524	25	2N702	25	2N1917	25	2SD63	30	2N156
24	2N1525	25	2N703	25	2N1918	25	2SD64	30	2N167
24	2N1526	25	2N706	25	2N1918	25	2SD65	30	2N178
24	2N1527	25	2N706	25	2N1995	25	2SD66	30	2N206
24	SF.T124	25	2N706	25	2N2092	25	2SD75	30	2N215
24	SF.T125	25	2N706A	25	2N2093	25	2SD77	30	2N230
24	SF.T130	25	2N706A	25	2N2096	25	2T64	30	2N234A
24	SF.T131	25	2N706B	25	2N2099	25	2T65	30	2N250
24	SF.T228	25	2N706B	25	2N2205	25	2T66	30	2N255
24	SF.T288	25	2N706M JAN	25	2N2206	25	2T69	30	2N256
24	SF.T321	25	2N726	25	2N2273	25	10B553	30	2N319
24	SF.T322	25	2N727	25	2N2274	25	10B556	30	2N320
24	SF.T323	25	2N753	25	2N2274	25	AF106	30	2N321
24	SF.T351	25	2N753	25	2N2377	25	AF109	30	2N328A
24	SF.T352	25	2N753	25	2N2411	25	AF121	30	2N331
24	SF.T353	25	2N835	25	2N2412	25	AFY12	30	2N331 JAN
25	2N41	25	2N835	25	2N2617	25	ASY27	30	2N331M
25	2N77	25	2N849	25	2N2656	25	ASY29	30	2N356A
25	2N105	25	2N850	25	2N2795	25	BCZ11	30	2N357A
25	2N109	25	2N860	25	2N2802	25	BCZ11	30	2N358A
25	2N186A	25	2N861	25	2N2803	25	DT161	30	2N358A
25	2N187A	25	2N869	25	2N2804	25	GT-14	30	2N394
25	2N188A	25	2N919	25	2N2805	25	GT-81	30	2N395
25	2N217	25	2N920	25	2N2806	25	GT-20	30	2N395

MAX V_{CB}	TRANSISTOR	MAX V_{CB}	TRANSISTOR	MAX V_{CB}	TRANSISTOR	MAX V_{CB}	TRANSISTOR	MAX V_{CB}	TRANSISTOR
30	2N396	30	2N1015D	30	2N2185	30	2T3043	30	SF.T172
30	2N396	30	2N1015E	30	2N2185	30	3N34	30	SF.T173
30	2N396A	30	2N1016	30	2N2244	30	3N35	30	SF.T174
30	2N396A	30	2N1016	30	2N2245	30	64T1	30	SF.T191
30	2N396A USN	30	2N1016A	30	2N2246	30	65T1	30	SF.T212
30	2N397	30	2N1016B	30	2N2318	30	AFY10	30	2SF.T212
30	2N397	30	2N1016C	30	2N2319	30	AFY11	30	SF.T221
30	2N413	30	2N1016D	30	2N2320	30	AFY18	30	SF.T222
30	2N413	30	2N1016E	30	2N2330	30	AMF101	30	SF.T223
30	2N413A	30	2N1017	30	2N2331	30	AMF104	30	SF.T227
30	2N414	30	2N1018	30	2N2334	30	AMF107	30	SF.T251
30	2N414	30	2N1094 USA	30	2N2335	30	ASY26	30	SF.T252
30	2N414A	30	2N1142	30	2N2363	30	ASY28	30	SF.T253
30	2N416	30	2N1177	30	2N2381	30	C106	30	SF.T264
30	2N416	30	2N1178	30	2N2432	30	CK256	30	SF.T298
30	2N417	30	2N1179	30	2N2613	30	CST1744	30	SF.T357P
30	2N417	30	2N1180	30	2N2616	30	CST1745	30	ST29
30	2N417	30	2N1195	30	2N2635	30	CST1746	30	ST30
30	2N425	30	2N1195 JAN	30	2N2729	30	DT1110	30	ST31
30	2N425	30	2N1219	30	2N2799	30	DT1120	30	ST32
30	2N426	30	2N1219	30	2N2857	30	DT1510	30	ST33
30	2N426	30	2N1219	30	2N2953	30	DT1520	30	ST34
30	2N427	30	2N1220	30	2N2964	30	ES3110	30	ST35
30	2N427	30	2N1220	30	2N2965	30	ES3111	30	ST903
30	2N428	30	2N1220	30	2N2968	30	ES3112	30	ST904
30	2N428	30	2B1221	30	2N2969	30	ES3113	30	ST904A
30	2N428	30	2N1221	30	2N2970	30	ES3114	30	ST905
30	2N428 JAN	30	2N1221	30	2N2971	30	ES3115	30	ST910
30	2N438	30	2N1222	30	2N2997	30	ES3116	30	T34D
30	2N438	30	2N1222	30	2N3021	30	ES3120	30	T34E
30	2N438A	30	2N1222	30	2N3024	30	ES3121	30	T34F
30	2N439	30	2N1252	30	2S731	30	ES3122	30	T-1872
30	2N439A	30	2N1253	30	2S732	30	ES3123	30	T-2092
30	2N440	30	2N1253	30	2S733	30	ES3124	30	T-2357
30	2N440	30	2N1253	30	2S741	30	ES3125	30	TI363
30	2N440A	30	2N1254	30	2S744	30	ES3126	30	TI364
30	2N471	30	2N1255	30	2SA116	30	FSP-215	30	ZT202
30	2N474	30	2N1258	30	2SA117	30	GA-52829	30	ZT203
30	2N477	30	2N1303	30	2SA118	30	MF1163	30	ZT204
30	2N479	30	2N1303	30	2SA246	30	MF1164	30	ZT402
30	2N499	30	2N1305	30	2SB37	30	MM1151	30	ZT403
30	2N502A	30	2N1305	30	2SB38	30	MM1152	30	ZT404
30	2N502B	30	2N1307	30	2SB53	30	MM1153	32	2N640
30	2N537 USA	30	2N1307	30	2SB61	30	MM1154	32	2N2428
30	2N538A	30	2N1309	30	2SB65	30	NS475	32	2N2429
30	2N542	30	2N1309	30	2SB66	30	NS476	32	2N2430
30	2N546	30	2N1384	30	2SB142	30	NS477	32	2N2654
30	2N548	30	2N1405	30	2SB143	30	NS661	32	2N2671
30	2N550	30	2N1406	30	2SB144	30	NS665	32	2N2672
30	2N552	30	2N1407	30	2SB145	30	NS733	32	2N2706
30	2N555	30	2N1409	30	2SB146	30	NS734	32	2N2835
30	2N603	30	2N1409A	30	2SB291	30	OC71	32	2SO24
30	2N604	30	2N1418	30	2SB292	30	OC73	32	2SB63
30	2N624	30	2N1450	30	2SC74	30	OC75	32	2SB120
30	2N626 JAN	30	2N1478	30	2SC112	30	OC440	32	2SB200
30	2N643	30	2N1491	30	2SC150	30	OC440K	32	2SB202
30	2N644	30	2N1499B	30	2SC166	30	OC470	32	2SD194
30	2N644	30	2N1640	30	2SC195	30	OC470K	32	AC127
30	2N645	30	2N1641	30	2SC196	30	SA-310	32	AC151
30	2N645	30	2N1642	30	2SC197	30	SA-311	32	AC152
30	2N653	30	2N1963	30	2SD37	30	SA-312	32	AC153
30	2N653	30	2N1969	30	2SD44	30	SA-313	32	AC162
30	2N653	30	2N1991	30	2SD61	30	SA-314	32	AC163
30	2N654	30	2N1993	30	2SD62	30	SA-315	32	ACY23
30	2N655	30	2N1994	30	2SD191	30	SA-316	32	ACY32
30	2N784	30	2N1999	30	2SD192	30	SA-410	32	ACY33
30	2N838	30	2N2001	30	2T383	30	SA-411	32	AD130
30	2N917	30	2N2002	30	2T681	30	SA-412	32	AD148
30	2N918	30	2N2003	30	2T682	30	SA-413	32	AD150
30	2N978	30	2N2137	30	2T3030	30	SA-414	32	ADY27
30	2N1015	30	2N2137A	30	2T3031	30	SA-415	32	ASY70
30	2N1015	30	2N2142	30	2T3032	30	SA-416	32	BCY33
30	2N1015A	30	2N2142A	30	2T3033	30	SF.T125P	32	BCY34
30	2N1015B	30	2N2162	30	2T3041	30	SF.T131P	32	BCY38
30	2N1015C	30	2N2165	30	2T3042	30	SF.T171	32	BCY40

MAX V_{CB}	TRANSISTOR	MAX V_{CB}	TRANSISTOR	MAX V_{CB}	TRANSISTOR	MAX V_{CB}	TRANSISTOR	MAX V_{CB}	TRANSISTOR
32	DS-2	35	2N1790	40	2N465	40	2N1224 USA	40	2N2614
32	DS-22	35	2N1866	40	2N465	40	2N1225	40	2N2651
32	DS-25	35	2N1867	40	2N511	40	2N1225 USA	40	2N2710
32	DS-26	35	2N1998	40	2N512	40	2N1256	40	2N2732
32	DS-29	35	2N2374	40	2N513	40	2N1257	40	2N2735
32	DS-34	35	2N2375	40	2N514	40	2N1276	40	2N2738
32	DS-44	35	2N2376	40	2N528	40	2N1277	40	2N2797
32	GET8	35	2N2397	40	2N576A	40	2N1278	40	2N2827
32	GET572	35	2N2495	40	2N587	40	2N1279	40	2N2883
32	2-OC16	35	2N2648	40	2N627	40	2N1299	40	2N2884
32	OC19	35	2N2786	40	2N669	40	2N1395	40	2N2955
32	OC76	35	2N2873	40	2N706C	40	2N1396	40	2N2956
32	OC83	35	2N3052	40	2N708	40	2N1396	40	2N2957
32	2-OC83	35	2SA43	40	2N708	40	2N1397	40	2N2962
32	OC84	35	2SB201	40	2N708	40	2N1469	40	2N2963
32	2-OC84	35	2SD193	40	2N708/46	40	2N1469	40	2N3013
32	OC122	35	CK22	40	2N708/51	40	2N1473	40	2N3014
32	OC204	35	CK66	40	2N783	40	2N1483	40	2N3040
32	OC206	35	CK67	40	2N784/51	40	2N1495	40	2N3215
32	OC469	35	FT1746	40	2N784A	40	2N1496	40	2S005
32	OC469K	35	GA-53149	40	2N784A/46	40	2N1496	40	2S014
32	TF78/30	35	GF-40022	40	2N834	40	2N1502	40	2S302
34	2N641	35	HA7520	40	2N834	40	2N1502	40	2S322
34	2N642	35	HA7523	40	2N858	40	2N1517A	40	2S711
34	2N1631	35	HA7527	40	2N858	40	2N1529	40	2S712
34	2N1632	35	HA7530	40	2N859	40	2N1529A	40	2SA40
34	2N1633	35	HA7533	40	2N914	40	2N1534	40	2SA78
34	2N1634	35	HA7537	40	2N914	40	2N1534A	40	2SA128
34	2N1635	35	HA7597	40	2N914	40	2N1539	40	2SA129
34	2N1636	35	LT5165	40	2N914/51	40	2N1539	40	2SA248
34	2N1637	35	PADT28	40	2N923	40	2N1539	40	2SB41
34	2N1638	35	PT900	40	2N938	40	2N1539A	40	2SB131
34	2N1639	35	ZT2708	40	2N939	40	2N1544	40	2SB140
34	2SA113	36	2G110	40	2N940	40	2N1544	40	2SB149
34	2SA114	36	2SB125	40	2N940	40	2N1544A	40	2SB180
34	2SA115	36	2SB237	40	2N943	40	2N1549	40	2SB180A
34	2SA273	36	OC23	40	2N943	40	2N1549	40	2SB203
34	2SA274	40	2G220	40	2N944	40	2N1549A	40	2SB204
34	2SA275	40	2G223	40	2N944	40	2N1553	40	2SB209
35	2N247	40	2G226	40	2N957	40	2N1553	40	2SB210
35	2N307	40	2G229	40	2N957	40	2N1553A	40	2SB265
35	2N326	40	2G403	40	2N987	40	2N1557	40	2SB331
35	2N444A	40	2G413	40	2N987	40	2N1557	40	2SC19
35	2N466	40	2N34	40	2N1000	40	2N1557A	40	2SC20
35	2N466	40	2N35	40	2N1008A	40	2N1605A	40	2SC110
35	2N466	40	2N176	40	2N1008A	40	2N1605A	40	2SC151
35	2N466 JAN	40	2N176	40	2N1012	40	2N1699	40	2T3011
35	2N467	40	2N176	40	2N1023	40	2N1749	40	3N47
35	2N467	40	2N213	40	2N1025	40	2N1919	40	3N51
35	2N467	40	2N213A	40	2N1025	40	2N1920	40	4C28
35	2N467 USA	40	2N214	40	2N1026	40	2N1962	40	4C29
35	2N504	40	2N228	40	2N1038	40	2N2063	40	4C30
35	2N593	40	2N247/33	40	2N1042	40	2N2064	40	4C31
35	2N1026A	40	2N250A	40	2N1051	40	2N2069	40	4D20
35	2N1141	40	2N274	40	2N1060	40	2N2078	40	4D21
35	2N1173	40	2N277	40	2N1065	40	2N2078A	40	4D22
35	2N1174	40	2N301	40	2N1066	40	2N2082	40	10B551
35	2N1175	40	2N301	40	2N1073	40	2N2082A	40	146T1
35	2N1175	40	2N351	40	2N1102	40	2N2084	40	ACY20
35	2N1230	40	2N376	40	2N1146	40	2N2084 JAN	40	ACY21
35	2N1231	40	2N377A	40	2N1146	40	2N2095	40	AD136
35	2N1240	40	2N384	40	2N1147	40	2N2097	40	ASZ20
35	2N1241	40	2N384/33	40	2N1147	40	2N2100	40	BFY12
35	2N1292	40	2N385A	40	2N1170	40	2N2137	40	BSY58
35	2N1321	40	2N388A	40	2N1170	40	2N2188	40	C201
35	2N1413	40	2N388A	40	2N1172	40	2N2189	40	C401
35	2N1413	40	2N404A	40	2N1176A	40	2N2288	40	CB1F4
35	2N1414	40	2N404A	40	2N1191	40	2N2291	40	CDT1310
35	2N1414	40	2N441	40	2N1192	40	2N2368	40	CDT1319
35	2N1415	40	2N441	40	2N1193	40	2N2369	40	CTP1104
35	2N1415	40	2N456	40	2N1194	40	2N2369A	40	CTP1117
35	2N1645	40	2N456A	40	2N1223	40	2N2413	40	CTP1133
35	2N1673	40	2N456B	40	2N1223	40	2N2424	40	CTP1135
35	2N1788	40	2N464	40	2N1223	40	2N2481	40	CTP1508
35	2N1789	40	2N464	40	2N1224	40	2N2501	40	CTP1552

MAX V_{CB}	TRANSISTOR	MAX V_{CB}	TRANSISTOR	MAX V_{CB}	TRANSISTOR	MAX V_{CB}	TRANSISTOR	MAX V_{CB}	TRANSISTOR
40	CTP1728	45	2N338	45	2N1410A	45	PT851	50	2N937
40	CTP1731	45	2N338A	45	2N1432	45	SF.T143	50	2N938
40	CTP3508	45	2N460	45	2N1704	45	SF.T144	50	2N939
40	CTP3552	45	2N461	45	2N1838	45	SF.T145	50	2N945
40	DS-504	45	2N461 USAF	45	2N1839	45	SF.T146	50	2N945
40	DS-520	45	2N464	45	2N1997	45	SF.T241	50	2N1015C
40	DS-525	45	2N465	45	2N2138	45	SF.T242	50	2N1031
40	FSP-165	45	2N465 USA	45	2N2138A	45	ST40	50	2N1032
40	GA-52830	45	2N472	45	2N2143	45	ST41	50	2N1034
40	GA-53242	45	2N472A	45	2N2143A	45	ST42	50	2N1034
40	GT-34S	45	2N475	45	2N2152	45	ST44	50	2N1034
40	HA7630	45	2N475A	45	2N2152A	45	ST45	50	2N1035
40	HA7632	45	2N480	45	2N2156	45	ST401	50	2N1035
40	HA7730	45	2N480A	45	2N2156A	45	ST4201	50	2N1035
40	HA7732	45	2N524	45	2N2195	45	ST4203	50	2N1036
40	L10	45	2N524A	45	2N2195A	45	TI490	50	2N1036
40	L15A	45	2N525	45	2N2195B	45	X-78	50	2N1036
40	L15B	45	2N525A	45	2N2353	45	ZT22	50	2N1036
40	MF1161	45	2N526	45	2N2353A	45	ZT23	50	2N1037
40	MF1162	45	2N526A	45	2N2382	45	ZT24	50	2N1037
40	MHT1804	45	2N526 JAN	45	2N2387	45	ZT42	50	2N1037
40	MHT1904	45	2N527	45	2N2388	45	ZT43	50	2N1037
40	MHT2004	45	2N527A	45	2N2529	45	ZT44	50	2N1037
40	NS662	45	2N543	45	2N2530	47	OC22	50	2N1039
40	NS666	45	2N543A	45	2N2531	47	OC24	50	2N1131
40	OC25	45	2N586	45	2N2532	50	2A	50	2N1132
40	SF.T213	45	2N650	45	2N2533	50	2B	50	2N1132
40	SF.T226	45	2N650	45	2N2534	50	2C	50	2N1154
40	SF.T232	45	2N650 USN	45	2N2639	50	2D	50	2N1154/951
40	SF.T238	45	2N650A	45	2N2640	50	2E	50	2N1162
40	SF.T265	45	2N651	45	2N2641	50	2F	50	2N1162A
40	SF.T315	45	2N651	45	2N2642	50	2G	50	2N1163
40	SYL1750	45	2N651A	45	2N2643	50	2N52	50	2N1163A
40	TI483	45	2N651 USN	45	2N2644	50	2N110	50	2N1168
40	TI484	45	2N652	45	2N2677	50	2N235A	50	2N1259
40	TI492	45	2N652	45	2N2678	50	2N235B	50	2N1312
40	TI493	45	2N652	45	2N2692	50	2N236A	50	2N1359
40	TI494	45	2N652 USN	45	2N2693	50	2N236B	50	2N1359
40	TI495	45	2N756	45	2N2694	50	2N278	50	2N1360
40	TV44	45	2N757	45	2N3022	50	2N327A	50	2N1360
40	ZT708	45	2N758	45	2N3025	50	2N327A	50	2N1408
45	2N43	45	2N759	45	2N3043	50	2N327B	50	2N1439
45	2N43A	45	2N760	45	2N3044	50	2N328A	50	2N1439
45	2N43A	45	2N780	45	2N3045	50	2N328A	50	2N1440
45	2N44	45	2N839	45	2N3046	50	2N328B	50	2N1441
45	2N44	45	2N840	45	2N3047	50	2N329A	50	2N1441
45	2N45	45	2N841	45	2N3048	50	2N329B	50	2N1442
45	2N117	45	2N842	45	2S001	50	2N330A	50	2N1442
45	2N118	45	2N843	45	2S003	50	2N350A	50	2N1443
45	2N118A	45	2N916	45	2S004	50	2N351A	50	2N1443
45	2N119	45	2N929	45	2S006	50	2N376A	50	2N1505
45	2N120	45	2N929	45	2SB75A	50	2N381	50	2N1505
45	2N332	45	2N930	45	2SB77A	50	2N382	50	2N1505
45	2N332	45	2N930	45	2SB368	50	2N383	50	2N1518
45	2N332A	45	2N1057	45	2SD75A	50	2N442	50	2N1520
45	2N332 USN	45	2N1123	45	10C573	50	2N442	50	2N1522
45	2N333	45	2N1149	45	10C574	50	2N663	50	2N1623
45	2N333	45	2N1150	45	11C7B1	50	2N677	50	2N1809
45	2N333A	45	2N1150/904	45	11C7F1	50	2N678	50	2N1816
45	2N333 USN	45	2N1151	45	11C207B20	50	2N721	50	2N1823
45	2N334	45	2N1151/904A	45	11C557	50	2N721	50	2N1830
45	2N334	45	2N1152	45	BFY10	50	2N722	50	2N1921
45	2N334A	45	2N1153	45	BFY11	50	2N722	50	2N1983
45	2N334 USN	45	2N1153/910	45	BFY29	50	2N761	50	2N1984
45	2N335	45	2N1183	45	BFY30	50	2N762	50	2N1985
45	2N335	45	2N1184	45	BSY11	50	2N921	50	2N1985
45	2N335A	45	2N1185	45	CK64	50	2N922	50	2N1986
45	2N335 USN	45	2N1189	45	CK65	50	2N924	50	2N1986
45	2N336	45	2N1209	45	DT4110	50	2N925	50	2N1987
45	2N336	45	2N1218	45	DT4120	50	2N926	50	2N1987
45	2N336A	45	2N1371	45	FSP-242-1	50	2N935	50	2N2000
45	2N337	45	2N1373	45	MP500	50	2N935	50	2N2004
45	2N337	45	2N1375	45	MP500A	50	2N936	50	2N2004
45	2N337A	45	2N1377	45	MP504	50	2N936	50	2N2005
45	2N338	45	2N1410	45	MP504A	50	2N937	50	2N2077

MAX V_{CB}	TRANSISTOR	MAX V_{CB}	TRANSISTOR	MAX V_{CB}	TRANSISTOR	MAX V_{CB}	TRANSISTOR	MAX V_{CB}	TRANSISTOR
50	2N2077A	60	2G210	60	2N759A USA	60	2N1489	60	2N2144A
50	2N2081	60	2G221	60	2N759B	60	2N1492	60	2N2153
50	2N2081A	60	2G224	60	2N760A	60	2N1501	60	2N2153A
50	2N2109	60	2G227	60	2N760A USA	60	2N1501	60	2N2157
50	2N2116	60	2G230	60	2N760B	60	2N1506	60	2N2157A
50	2N2123	60	2G377	60	2N844	60	2N1506	60	2N2190
50	2N2130	60	2N144/13	60	2N909	60	2N1506	60	2N2191
50	2N2207	60	2N158	60	2N929A	60	2N1507	60	2N2192
50	2N2226	60	2N158	60	2N930A	60	2N1507	60	2N2192
50	2N2230	60	2N173	60	2N956	60	2N1511	60	2N2192A
50	2N2303	60	2N243	60	2N1008B	60	2N1513	60	2N2192B
50	2N2336	60	2N244	60	2N1008B	60	2N1530	60	2N2194
50	2N2337	60	2N251	60	2N1008B M	60	2N1530A	60	2N2194A
50	2N2425	60	2N251A	60	2N1015A	60	2N1535	60	2N2194B
50	2N2942	60	2N297	60	2N1031A	60	2N1535A	60	2N2217
50	2N2659	60	2N297A	60	2N1032A	60	2N1540	60	2N2218
50	2N2662	60	2N297A	60	2N1039	60	2N1540	60	2N2219
50	2N2665	60	2N297A USA	60	2N1039 USN	60	2N1540	60	2N2220
50	2N2668	60	2N301	60	2N1043	60	2N1540A	60	2N2220
50	2N2739	60	2N301A	60	2N1067	60	2N1545	60	2N2221
50	2N2745	60	2N339A	60	2N1067	60	2N1545	60	2N2221
50	2N2751	60	2N342	60	2N1068	60	2N1545A	60	2N2222
50	2N2757	60	2N343	60	2N1068	60	2N1550	60	2N2222
50	2N2763	60	2N343	60	2N1069	60	2N1550	60	2N2247
50	2N2769	60	2N343	60	2N1069	60	2N1550A	60	2N2248
50	2N2800	60	2N389	60	2N1070	60	2N1554	60	2N2249
50	2N2801	60	2N389	60	2N1070	60	2N1554	60	2N2270
50	2N2837	60	2N389 USN	60	2N1092	60	2N1554A	60	2N2282
50	2N2838	60	2N389A	60	2N1116	60	2N1558	60	2N2285
50	2N2942	60	2N392	60	2N1117	60	2N1558	60	2N2338
50	2N3035	60	2N443	60	2N1131A	60	2N1558A	60	2N2339
50	2N3039	60	2N457	60	2N1132A	60	2N1564	60	2N2350
50	2SA74	60	2N457A	60	2N1136	60	2N1565	60	2N2350A
50	2SB260	60	2N457B	60	2N1137	60	2N1566	60	2N2352
50	2SC44	60	2N463 USN	60	2N1138	60	2N1611	60	2N2352A
50	2SC102	60	2N497	60	2N1146A	60	2N1612	60	2N2357
50	2SC111	60	2N497	60	2N1146A	60	2N1613	60	2N2868
50	2SC113	60	2N497	60	2N1147A	60	2N1616	60	2N2410
50	2SC114	60	2N497A	60	2N1147A	60	2N1616	60	2N2467
50	2SC116	60	2N511A	60	2N1157	60	2N1644	60	2N2476
50	7A30	60	2N512A	60	2N1176B	60	2N1651	60	2N2477
50	7A31	60	2N513A	60	2N1176B	60	2N1659	60	2N2483
50	7A32	60	2N514A	60	2N1183A	60	2N1678	60	2N2484
50	109UA	60	2N545	60	2N1184A	60	2N1700	60	2N2491
50	109WA	60	2N547	60	2N1186	60	2N1701	60	2N2520
50	109XA	60	2N549	60	2N1187	60	2N1702	60	2N2512
50	ACY18	60	2N551	60	2N1188	60	2N1703	60	2N2522
50	ACY19	60	2N553	60	2N1206	60	2N1710	60	2N2523
50	AD133	60	2N560 JAN	60	2N1208	60	2N1711	60	2N2524
50	ADZ11	60	2N574	60	2N1212	60	2N1711	60	2N2537
50	ASY67	60	2N575	60	2N1226	60	2N1768	60	2N2538
50	BDY10	60	2N628	60	2N1232	60	2N1905	60	2N2539
50	BFY33	60	2N656	60	2N1233	60	2N1924	60	2N2540
50	BSY34	60	2N656	60	2N1242	60	2N1925	60	2N2540
50	DS-501	60	2N656	60	2N1243	60	2N1926	60	2N2601
50	DS-505	60	2N656A	60	2N1294	60	2N1958	60	2N2602
50	DS-506	60	2N677A	60	2N1323	60	2N1958A	60	2N2603
50	GT-34HV	60	2N678A	60	2N1413	60	2N1958/18	60	2N2604
50	HA7598	60	2N696	60	2N1420	60	2N1959	60	2N2605
50	NS663	60	2N696	60	2N1420	60	2N1959/18	60	2N2618
50	NS664	60	2N696	60	2N1420A	60	2N1959A	60	2N2618/46
50	NS667	60	2N697	60	2N1440	60	2N1964	60	2N2673
50	NS668	60	2N697	60	2N1444	60	2N1965	60	2N2674
50	OC123	60	2N697	60	2N1474	60	2N1971	60	2N2675
50	PADT35	60	2N697	60	2N1474	60	2N1972	60	2N2676
50	TI480	60	2N717	60	2N1474A	60	2N2006	60	2N2731
55	2N339	60	2N717	60	2N1474A	60	2N2007	60	2N2734
55	2N339	60	2N718	60	2N1474A	60	2N2017	60	2N2737
55	2SB67	60	2N718	60	2N1475	60	2N2101	60	2N2798
55	2SC167	60	2N730	60	2N1475	60	2N2106	60	2N2845
55	AD140	60	2N731	60	2N1475	60	2N2107	60	2N2846
55	2-AD140	60	2N754	60	2N1479	60	2N2108	60	2N2847
56	2N707	60	2N756A	60	2N1487	60	2N2139	60	2N2848
56	2N707	60	2N757A USA	60	2N1487	60	2N2139A	60	2N2863
56	2N707	60	2N758A	60	2N1489	60	2N2144	60	2N2864

MAX V_{CB}	TRANSISTOR	MAX V_{CB}	TRANSISTOR	MAX V_{CB}	TRANSISTOR	MAX V_{CB}	TRANSISTOR	MAX V_{CB}	TRANSISTOR
60	2N2869	60	11C211B20	60	MM486	70	2N927	75	BSY54
60	2N2897	60	11C551	60	MM487	70	2N928	75	FSP-42
60	2N2900	60	11C553	60	MM488	70	2N1056	75	FSP-42-1
60	2N2904	60	11C702	60	MM511	70	2N1057	75	MP502
60	2N2904A	60	38N2	60	MM512	70	2N1132B	75	MP502A
60	2N2905	60	39N2	60	MM513	70	2N1132B	75	MP506
60	2N2905A	60	40N2	60	MP501	70	2N1196	75	MP506A
60	2N2906	60	41N2	60	MP501A	70	2N1197	75	OC450
60	2N2906A	60	42N2	60	MP505	70	2N2076	75	OC450K
60	2N2907	60	147T1	60	MP505A	70	2N2076A	75	PT692
60	2N2907A	60	AMF102	60	NS478	70	2N2080	75	ST4202
60	2N2909	60	AMF105	60	NS479	70	2N2080A	75	ST4202
60	2N2947	60	AMF108	60	NS480	70	2N2490	75	ZT1613
60	2N2948	60	AMF110	60	OC29	70	2N2660	75	ZT1711
60	2N2949	60	AMF111	60	OC35	70	2N2663	80	2G222
60	2N2950	60	AMF112	60	OC77	70	2N2666	80	2G228
60	2N2951	60	AMF113	60	OC203	70	2N2669	80	2G231
60	2N2952	60	AMF114	60	OC205	70	2N2787	80	2N158A
60	2N3023	60	AMF115	60	PT600	70	2N3034	80	2N158A
60	2N3026	60	AMF116	60	PT601	70	2N3081	80	2N174
60	2N3053/40053	60	BSY10	60	RT5001	70	2SA127	80	2N174
60	2N3214	60	BSY51	60	RT5002	70	ACY17	80	2N174A
60	2S017	60	BSY52	60	SF.T214	70	AF118	80	2N174 JAN
60	2S019	60	CDT1311	60	SF.T233	70	AUY10	80	2N268
60	2S025	60	CDT1320	60	SF.T239	70	C301	80	2N301A
60	2S102	60	CK258	60	SF.T243	70	FSP-289-1	80	2N375
60	2S103	60	CK311	60	SF.T266	70	PADT50	80	2N375
60	2S104	60	CK312	60	ST400	70	SF.T162	80	2N424
60	2S301	60	CK313	60	ST440	70	TI496	80	2N424
60	2S721	60	CK314	60	ST450	75	2N718A	80	2N424A
60	2S723	60	CK315	60	ST1504	75	2N718A	80	2N458A
60	2SB42	60	CTP1136	60	ST4150	75	2N718A	80	2N458B
60	2SB55	60	CTP1504	60	TA6200	75	2N956	80	2N511B
60	2SB62	60	CTP1544	60	XH10	75	2N956	80	2N512B
60	2SB67A	60	CTP1735	60	ZT83	75	2N997	80	2N513B
60	2SB69	60	CTP1736	60	ZT84	75	2N1072 USA	80	2N514B
60	2SB124	60	CTP3504	60	ZT696	75	2N1311	80	2N538
60	2SB132	60	CTP3544	60	ZT697	75	2N1510	80	2N538
60	2SB141	60	DA3F3	60	ZT1479	75	2N1613	80	2N538A
60	2SB181	60	DS-503	60	ZT1480	75	2N1613	80	2N538A
60	2SB181A	60	DT1111	60	ZT1481	75	2N1709	80	2N539
60	2SB236	60	DT1121	60	ZT1482	75	2N1711	80	2N539
60	2SB292A	60	DT1511	60	ZT1483	75	2N1711	80	2N539A
60	2SB301	60	DT1521	60	ZT1485	75	2N1711	80	2N539A
60	2SB318	60	H1	60	ZT1487	75	2N1841	80	2N540
60	2SB332	60	H2	60	ZT1489	75	2N2049	80	2N540
60	2SC12	60	H3	60	ZT1511	75	2N2140	80	2N540A
60	2SC21	60	H3A	60	ZT1513	75	2N2140A	80	2N540A
60	2SC101	60	H4	60	ZT1700	75	2N2145	80	2N553
60	2SC152	60	H4A	60	ZT2270	75	2N2145A	80	2N561
60	2SC191	60	H12	60	ZT2476	75	2N2154	80	2N574A
60	2SC192	60	HA7524	60	ZT2477	75	2N2154A	80	2N575A
60	2SC193	60	HA7528	64	AD131	75	2N2158	80	2N618
60	2SC194	60	HA7531	64	ASY48	75	2N2158A	80	2N618
60	2SD120	60	HA7534	64	AUY18	75	2N2433	80	2N629
60	2SD122	60	HA7538	64	AUY19	75	2N2434	80	2N665
60	2SD124	60	LT-11	64	BCY30	75	2N2645	80	2N665 SIG.C
60	2T3021	60	LT-12	64	BCY31	75	2N2781	80	2N735
60	3N45	60	LT-13	64	BCY32	75	2N2788	80	2N735A
60	3N48	60	LT-14	64	BCY39	75	2N2789	80	2N736
60	3N49	60	LT-15	64	GET9	75	2N2790	80	2N736A
60	3N52	60	MHM1001	64	GET573	75	2N2791	80	2N736B
60	3TX004	60	MHM1101	64	TF78/60	75	2N2792	80	2N738
60	11B551	60	MHT1803	65	2N343B	75	2N2874	80	2N739
60	11B552	60	MHT1903	65	2N418	75	2N2939	80	2N740
60	11B554	60	MHT2003	65	2N1614	75	2S742	80	2N946
60	11B555	60	MHT4401	65	153-04	75	2S745	80	2N946
60	11C1B1	60	MHT4411	65	154-04	75	2SC117	80	2N1011
60	11C1F1	60	MHT4412	65	163-04	75	2SC119	80	2N1011
60	11C5B1	60	MHT4413	65	164-04	75	153-05	80	2N1011 SIG.C
60	11C5F1	60	MHT4501	65	AUY21	75	154-05	80	2N1011 USA
60	11C11B1	60	MHT4511	70	2N707A	75	163-05	80	2N1040
60	11C11F1	60	MHT4512	70	2N716	75	164-05	80	2N1044
60	11C201B20	60	MHT4513	70	2N915	75	BFY34	80	2N1047
60	11C205B20	60	MHT7401	70	2N915	75	BSY53	80	2N1047A

MAX V_{CB}	TRANSISTOR	MAX V_{CB}	TRANSISTOR	MAX V_{CB}	TRANSISTOR	MAX V_{CB}	TRANSISTOR	MAX V_{CB}	TRANSISTOR
80	2N1047B	80	2N1565	80	2SB361	80	OC703	100	2N871
80	2N1049	80	2N1566	80	2SC118	80	SF.T234	100	2N871
80	2N1049A	80	2N1566A	80	3N46	80	SF.T240	100	2N910
80	2N1049B	80	2N1572	80	4C43	80	SF.T250	100	2N910
80	2N1073A	80	2N1573	80	7B1	80	SF.T267	100	2N911
80	2N1099	80	2N1574	80	7B2	80	TI481	100	2N911
80	2N1099	80	2N1609	80	7C1	80	TI486	100	2N912
80	2N1120	80	2N1610	80	7C2	80	TI487	100	2N912
80	2N1120 USA	80	2N1617	80	7D1	85	2N340	100	2N1014
80	2N1146B	80	2N1617	80	7D2	85	2N340	100	2N1021
80	2N1146B	80	2N1617	80	7E1	85	2N340A	100	2N1021A
80	2N1147B	80	2N1647	80	7E2	85	2N342A	100	2N1031C
80	2N1147B	80	2N1649	80	7F1	85	2N342B	100	2N1032C
80	2N1155	80	2N1658	80	7F2	85	2N2984	100	2N1041
80	2N1155/952	80	2N1751	80	7G1	85	2N2986	100	2N1041 USN
80	2N1157A	80	2N1837	80	7G2	85	153-06	100	2N1045
80	2N1159	80	2N1837A	80	11C3B1	85	154-06	100	2N1046
80	2N1160	80	2N1922	80	11C3F1	85	163-06	100	2N1100
80	2N1164	80	2N2065	80	11C203B20	85	164-06	100	2N1100
80	2N1164	80	2N2066	80	11C704	90	2N420	100	2N1100
80	2N1164A	80	2N2070	80	31N2	90	2N677B	100	2N1136C
80	2N1165	80	2N2075	80	32N2	90	2N678B	100	2N1137B
80	2N1165A	80	2N2075A	80	151-04	90	2N1031B	100	2N1138B
80	2N1165 USN	80	2N2079	80	152-04	90	2N1032B	100	2N1146C
80	2N1183B	80	2N2079A	80	AD132	90	2N1136A	100	2N1146C
80	2N1184B	80	2N2193	80	ADY26	90	2N1137A	100	2N1147C
80	2N1202	80	2N2193A	80	ADZ12	90	2N1138A	100	2N1147C
80	2N1202	80	2N2193B	80	AUY20	90	2N1310	100	2N1166A
80	2N1203	80	2N2196	80	AUY22	90	2N1718	100	2N1167
80	2N1210	80	2N2197	80	BFY13	90	2N1720	100	2N1167A
80	2N1211	80	2N2279/51	80	CDT1312	90	2N2141	100	2N1275
80	2N1261	80	2N2289	80	CDT1321	90	2N2141A	100	2N1326
80	2N1261	80	2N2292	80	CTP1111	90	2N2146	100	2N1358A
80	2N1262	80	2N2293	80	CTP1503	90	2N2146A	100	2N1362
80	2N1262	80	2N2295	80	CTP1545	90	2N2155	100	2N1362
80	2N1263	80	2N2297	80	CTP1729	90	2N2155A	100	2N1363
80	2N1263	80	2N2351	80	CTP1732	90	2N2159	100	2N1363
80	2N1275	80	2N2351A	80	CTP3503	90	2N2159A	100	2N1412
80	2N1296	80	2N2358	80	CTP3545	90	2N2632	100	2N1412 USN
80	2N1325	80	2N2380	80	DS-502	90	2N2661	100	2N1430
80	2N1338	80	2N2380A	80	DT4111	90	2N2664	100	2N1437
80	2N1358	80	2N2479	80	DT4121	90	2N2667	100	2N1438
80	2N1358	80	2N2492	80	H10	90	2N2670	100	2N1476
80	2N1358	80	2N2511	80	H12A	90	2N3054	100	2N1476
80	2N1358 JAN	80	2N2515	80	H15A	90	GT-1200	100	2N1477
80	2N1358M JAN	80	2N2516	80	H15B	90	HA7529	100	2N1477
80	2N1358 USA	80	2N2526	80	H45	90	HA7539	100	2N1480
80	2N1504	80	2N2595	80	HA7631	90	MP503A	100	2N1481
80	2N1504/10	80	2N2596	80	HA7633	90	MP507	100	2N1482
80	2N1506A	80	2N2597	80	HA7731	90	MP507A	100	2N1484
80	2N1506A	80	2N2657	80	HA7733	95	2N2987	100	2N1485
80	2N1519	80	2N2697	80	MHT1802	95	2N2989	100	2N1486
80	2N1521	80	2N2730	80	MHT1902	95	2N2991	100	2N1488
80	2N1523	80	2N2733	80	MHT2002	95	2N2993	100	2N1488
80	2N1531	80	2N2736	80	MHT4414	95	153-07	100	2N1490
80	2N1531A	80	2N2811	80	MHT4415	95	154-07	100	2N1490
80	2N1536	80	2N2812	80	MHT4416	95	163-07	100	2N1493
80	2N1536A	80	2N2832	80	MHT4451	95	164-07	100	2N1512
80	2N1541	80	2N2870	80	MHT4453	100	2N420A	100	2N1514
80	2N1541	80	2N2877	80	MHT4455	100	2N498	100	2N1532
80	2N1541	80	2N3110	80	MHT4514	100	2N498	100	2N1532A
80	2N1541A	80	2N3213	80	MHT4515	100	2N498	100	2N1537
80	2N1546	80	2S301	80	MHT4516	100	2N498A	100	2N1537A
80	2N1546	80	2S321	80	MHT4551	100	2N630	100	2N1542
80	2N1546A	80	2SB81	80	MHT4553	100	2N657	100	2N1542
80	2N1551	80	2SB122	80	MHT4555	100	2N657	100	2N1542
80	2N1551	80	2SB148	80	MHT6011	100	2N657A	100	2N1542A
80	2N1551A	80	2SB151	80	MHT6013	100	2N677C	100	2N1547
80	2N1555	80	2SB205	80	MHT6015	100	2N678C	100	2N1547
80	2N1555	80	2SB206	80	MHT7402	100	2N755	100	2N1547A
80	2N1555A	80	2SB211	80	MHT8002	100	2N845	100	2N1552
80	2N1559	80	2SB212	80	M1X	100	2N870	100	2N1552
80	2N1559	80	2SB235	80	OC28	100	2N870	100	2N1552A
80	2N1559A	80	2SB259	80	OC36	100	2N870	100	2N1556
80	2N1564	80	2SB333	80	OC701	100	2N871	100	2N1556A

MAX V_{CB}	TRANSISTOR	MAX V_{CB}	TRANSISTOR	MAX V_{CB}	TRANSISTOR	MAX V_{CB}	TRANSISTOR	MAX V_{CB}	TRANSISTOR
100	2N1560	100	2N2783	100	OC20	120	2N1166	120	7F3
100	2N1560A	100	2N2879	100	OC703A	120	2N1203	120	7F4
100	2N1618	100	2N2880	100	PT530A	120	2N1335	120	7G3
100	2N1618	100	2N2887	100	PT613	120	2N1336	120	7G4
100	2N1618	100	2N3033	100	RT5003	120	2N1339	120	11C10B1
100	2N1620	100	2N3038	100	RT5004	120	2N1340	120	11C10F1
100	2N1652	100	2N3055	100	SP8401	120	2N1341	120	11C210B20
100	2N1670	100	2N3108	100	SP8402	120	2N1364	120	11C710
100	2N1675	100	2N3212	100	ST1505	120	2N1364	120	151-06
100	2N1769	100	2N3262	100	U15A	120	2N1365	120	152-06
100	2N1810	100	2S018	100	U15B	120	2N1365	120	BSY55
100	2M1817	100	2S020	100	ZT86	120	2N1465	120	BSY56
100	2N1824	100	2S026	100	ZT1484	120	2N1466	120	BUY13
100	2N1831	100	2S722	100	ZT1486	120	2N1533	120	DT4112
100	2N1889	100	2S724	100	ZT1488	120	2N1538	120	MHM2001
100	2N1890	100	2SB64	100	ZT1490	120	2N1543	120	MHM2101
100	2N1893	100	2SB82	100	ZT1512	120	2N1543	120	MHT4402
100	2N1906	100	2SB152	100	ZT1514	120	2N1543	120	MHT4417
100	2N1907	100	2SB202	105	2N398	120	2N1548	120	MHT4418
100	2N1970	100	2SB207	105	2N398	120	2N1548	120	MHT4419
100	2N1973	100	2SB208	105	2N398A	120	2N1648	120	MHT4502
100	2N1973	100	2SB213	105	2N398B	120	2N1650	120	MHT4517
100	2N1974	100	2SB214	105	2N398B	120	2N1653	120	MHT4518
100	2N1974	100	2SB300	105	2N398 USN	120	2N1723	120	MHT4519
100	2N1975	100	2SB319	105	2N2042	120	2N1725	120	PT850
100	2N1975	100	2SB320	105	2N2042A	120	2N1893	120	PT850A
100	2N1988	100	2SB334	105	2N2043	120	2N2086	120	SF.T186
100	2N1988	100	2SC43	105	2N2043A	120	2N2087	120	SP8400
100	2N1989	100	2SD121	105	2N3229	120	2N2102	120	ZT91
100	2N1989	100	2SD123	105	2SA150	120	2N2150	120	ZT92
100	2N1990	100	2SD125	105	2SB68	120	2N2151	125	2N341
100	2N1990/46	100	3TX002	105	2SB121	120	2N2173	125	2N341
100	2N2015	100	3TX003	105	2SB306	120	2N2201	125	2N341A
100	2N2060	100	11B556	105	150-08	120	2N2202	125	2N738
100	2N2110	100	11B560	105	154-08	120	2N2203	125	2N739
100	2N2117	100	109UB	105	163-08	120	2N2204	125	2N739A
100	2N2124	100	109WB	105	164-08	120	2N2212	125	2N740
100	2N2131	100	109XB	110	2N1234	120	2N2243	125	2N740A
100	2N2210	100	151-05	110	2N1244	120	2N2243A	125	2N1054
100	2N2223	100	152-05	110	HA7525	120	2N2267	125	2N1207
100	2N2223A	100	AMF103	110	HA7535	120	2N2269	125	2N1572
100	2N2227	100	AMF106	115	2S743	120	2N2287	125	2N1573
100	2N2231	100	AMF109	115	2S746	120	2N2290	125	2N1574
100	2N2266	100	BDY11	115	153-09	120	2N2294	125	2N2509
100	2N2268	100	BFY14	115	154-09	120	2N2296	125	2N2518
100	2N2283	100	CDT1313	115	163-09	120	2N2359	125	2N2519
100	2N2286	100	CDT1322	115	164-09	120	2N2364	125	2N2598
100	2N2437	100	CTP1500	120	2N122	120	2N2364A	125	2N2599
100	2N2438	100	CTP1553	120	2N611	120	2N2405	125	2N2600
100	2N2439	100	CTP1730	120	2N698	120	2N2435	125	2S305
100	2N2459	100	CTP1733	120	2N698	120	2N2436	125	2S305
100	2N2460	100	CTP3500	120	2N698	120	2N2440	125	2S325
100	2N2461	100	CTP3553	120	2N698	120	2N2443	125	34N2
100	2N2462	100	DPT657	120	2N698	120	2N2478	125	35N2
100	2N2463	100	DT1112	120	2N699	120	2N2527	125	153-10
100	2N2464	100	DT1122	120	2N699	120	2N2633	125	154-10
100	2N2465	100	DT1512	120	2N699	120	2N2813	125	163-10
100	2N2466	100	DT1522	120	2N699B	120	2N2814	125	164-10
100	2N2468	100	FM870	120	2N719	120	2N2833	125	OC480
100	2N2493	100	FM871	120	2N719	120	2N2895	125	OC480K
100	2N2510	100	FSP-166	120	2N719A	120	2N2898	130	2N1046A
100	2N2525	100	FSP-166-1	120	2N720	120	2N2940	130	2N1046B
100	2N2590	100	GT-34N	120	2N720	120	2N3036	130	2N1908
100	2N2591	100	MHT4452	120	2N720A	120	2N3037	130	2N2016
100	2N2592	100	MHT4454	120	2N1022	120	2N3264	130	2SB296
100	2N2593	100	MHT4456	120	2N1022A	120	2N3266	140	2N1893A
100	2N2658	100	MHT4552	120	2N1048	120	2SB231	140	2N1899
100	2N2698	100	MHT4554	120	2N1048A	120	2SB258	140	2N1900
100	2N2740	100	MHT4556	120	2N1048B	120	2SB274	140	2N1901
100	2N2746	100	MHT6001	120	2N1050	120	2SB275	140	2N1902
100	2N2752	100	MHT6012	120	2N1050A	120	2SB276	140	2N1903
100	2N2758	100	MHT6014	120	2N1050B	120	2SC153	140	2N1904
100	2N2764	100	MHT6016	120	2N1073B	120	7C3	140	2N2834
100	2N2770	100	MHT7403	120	2N1156	120	703	140	2N2896
100	2N2782	100	MHT8003	120	2N1156/953	120	7E3	140	2N2899

MAX V_{CB}	TRANSISTOR	MAX V_{CB}	TRANSISTOR	MAX V_{CB}	TRANSISTOR	MAX V_{CB}	TRANSISTOR	MAX V_{CB}	TRANSISTOR
140	151-07	200	2N2727						
140	152-07	200	2N2742						
140	PT901	200	2N2748						
140	PT901-1	200	2N2754						
140	PT902	200	2N2760						
140	PT903	200	2N2766						
140	PT903-1	200	2N2772						
145	153-12	200	2N3079						
145	154-12	200	109UD						
145	163-12	200	109WD						
145	164-12	200	109XD						
150	2N1342	200	151-10						
150	2N1655	200	152-10						
150	2N1656	200	XT1A						
150	2N1719	200	XT2A						
150	2N1721	205	153-18						
150	2N1811	205	154-18						
150	2N1818	205	163-18						
150	2N1825	205	164-18						
150	2N1832	210	BUY12						
150	2N2111	225	153-20						
150	2N2118	225	154-20						
150	2N2125	225	163-20						
150	2N2132	225	164-20						
150	2N2228	250	2N1813						
150	2N2232	250	2N2113						
150	2N2551	250	2N2761						
150	2N2634	300	2N1814						
150	2N2741	300	2N2114						
150	2N2747	300	2N3080						
150	2N2753	300	XT1B						
150	2N2759	300	XT2B						
150	2N2765	400	2N2580						
150	2N2771	400	2N2581						
150	2N2941	400	DTS-400						
150	2N3263	400	XT1C						
150	2N3265	400	XT2C						
150	2SC41	5	2N673						
150	2SC42	500	2N2582						
150	109UC	500	2N2583						
150	109WC	500	XT1D						
150	109XC	500	XT2D						
155	2N2983								
155	2N2985								
155	2N2988								
155	2N2990								
155	2N2992								
155	2N2994								
160	2N2528								
160	151-08								
160	152-08								
165	153-14								
165	154-14								
165	163-14								
165	164-14								
175	2N2008								
180	2SC70								
180	151-09								
180	152-09								
185	153-16								
185	154-16								
185	163-16								
185	164-16								
200	2N1812								
200	2N1819								
200	2N1826								
200	2N1833								
200	2N2112								
200	2N2119								
200	2N2126								
200	2N2133								
200	2N2229								
200	2N2233								
200	2N2284								
200	2N2726								

MAX V_{EB}	TRANSISTOR	MAX V_{EB}	TRANSISTOR	MAX V_{EB}	TRANSISTOR	MAX V_{EB}	TRANSISTOR	MAX V_{EB}	TRANSISTOR
.10	2N341	0.5	2N1727	0.5	2SA268	1.0	2N333 USN	1.0	2N1788
.20	2N477	0.5	2N1728	0.5	2SA269	1.0	2N334	1.0	2N1905
0.2	2N700	0.5	2N1742	0.5	2SA270	1.0	2N334	1.0	2N1906
0.2	2N700A	0.5	2N1743	0.5	2SA271	1.0	2N334 USN	1.0	2N1961
0.2	2N700A SIG.C	0.5	2N1744	0.5	2SA272	1.0	2N335	1.0	2N2084 JAN
0.2	2N2999	0.5	2N1745	0.5	2SA288	1.0	2N335	1.0	2N2098
0.2	2SA229	0.5	2N1747	0.5	2SA289	1.0	2N335 USN	1.0	2N2256
0.2	2SA230	0.5	2N1786	0.5	2SA290	1.0	2N336	1.0	2N2257
0.2	2SA239	0.5	2N1787	0.5	2SC28	1.0	2N336	1.0	2N2258
0.2	T-2030	0.5	2N1789	0.5	AF118	1.0	2N337	1.0	2N2259
0.3	2N2873	0.5	2N1790	0.5	AFY12	1.0	2N337	1.0	2N2273
0.3	2N2997	0.5	2N1840	0.5	AMF101	1.0	2N338	1.0	2N2400
0.3	2N2998	0.5	2N1864	0.5	AMF102	1.0	2N338	1.0	2N2963
0.3	AF106	0.5	2N1865	0.5	AMF103	1.0	2N339	1.0	2S001
0.3	AF109	0.5	2N1866	0.5	AMF104	1.0	2N339	1.0	2S003
0.3	AF139	0.5	2N1867	0.5	AMF105	1.0	2N340	1.0	2S004
0.3	AFY16	0.5	2N1868	0.5	AMF106	1.0	2N340	1.0	2S005
0.3	TIX316	0.5	2N2360	0.5	AMF107	1.0	2N341	1.0	2S006
0.3	TV44	0.5	2N2361	0.5	AMF108	1.0	2N342	1.0	2S014
0.4	2N1204	0.5	2N2362	0.5	AMF109	1.0	2N343	1.0	2S701
0.4	2N1204A	0.5	2N2363	0.5	AMF110	1.0	2N342A	1.0	2S702
0.4	PADT30	0.5	2N2398	0.5	AMF111	1.0	2N343	1.0	2S703
0.5	2N219	0.5	2N2399	0.5	AMF112	1.0	2N343	1.0	2S741
0.5	2N247/33	0.5	2N2415	0.5	AMF113	1.0	2N504	1.0	2S742
0.5	2N274	0.5	2N2416	0.5	AMF114	1.0	2N537 USA	1.0	2S743
0.5	2N370/33	0.5	2N2494	0.5	AMF115	1.0	2N544/33	1.0	2S744
0.5	2N371	0.5	2N2495	0.5	AMF116	1.0	2N602	1.0	2S745
0.5	2N371/33	0.5	2SA12	0.5	MM1153	1.0	2N603	1.0	2S746
0.5	2N372	0.5	2SA15	0.5	MM1154	1.0	2N644	1.0	2SA113
0.5	2N372/33	0.5	2SA30	0.5	PT720	1.0	2N645	1.0	2SA114
0.5	2N373	0.5	2SA31	0.5	T-2028	1.0	2N711	1.0	2SA115
0.5	2N374	0.5	2SA35	0.5	T-2029	1.0	2N741	1.0	2SA273
0.5	2N384	0.5	2SA36	0.7	2N1142	1.0	2N741A	1.0	2SA274
0.5	2N384/33	0.5	2SA43	0.7	159T1	1.0	2N794	1.0	2SA275
0.5	2N409	0.5	2SA57	0.7	160T1	1.0	2N962	1.0	2SB64
0.5	2N410	0.5	2SA58	0.7	161T1	1.0	2N966	1.0	2SB69
0.5	2N411	0.5	2SA60	.75	2N1073	1.0	2N1065	1.0	2SB231
0.5	2N412	0.5	2SA72	.75	2N1073A	1.0	2N1094 USA	1.0	2SB258
0.5	2N499	0.5	2SA73	.75	2N1073B	1.0	2N1141	1.0	2SB259
0.5	2N502	0.5	2SA74	0.8	2N1515	1.0	2N1149	1.0	2SB260
0.5	2N502A	0.5	2SA75	0.8	2N1516	1.0	2N1150	1.0	2SB300
0.5	2N588	0.5	2SA76	0.8	2N1517	1.0	2N1150/904	1.0	2SB301
0.5	2N1023	0.5	2SA77	0.8	2N1517A	1.0	2N1151	1.0	2SB318
0.5	2N1066	0.5	2SA80	0.8	OC169	1.0	2N1151/904A	1.0	2SB319
0.5	2N1143	0.5	2SA92	0.8	OC170	1.0	2N1152	1.0	2SB361
0.5	2N1158	0.5	2SA93	0.8	OC171	1.0	2N1153	1.0	2SC157
0.5	2N1158A	0.5	2SA105	0.8	PADT28	1.0	2N1153/910	1.0	2SC158
0.5	2N1180	0.5	2SA106	1.0	2G101	1.0	2N1154	1.0	2SC159
0.5	2N1224	0.5	2SA107	1.0	2G102	1.0	2N1155	1.0	2SC160
0.5	2N1224 USA	0.5	2SA108	1.0	2G401	1.0	2N1156	1.0	3N34
0.5	2N1225	0.5	2SA109	1.0	2G402	1.0	2N1177	1.0	3N35
0.5	2N1225 USA	0.5	2SA110	1.0	2G403	1.0	2N1178	1.0	4C43
0.5	2N1226	0.5	2SA111	1.0	2G413	1.0	2N1179	1.0	4D24
0.5	2N1395	0.5	2SA112	1.0	2G414	1.0	2N1195	1.0	4D25
0.5	2N1396	0.5	2SA116	1.0	2G415	1.0	2N1195 JAN	1.0	4D26
0.5	2N1396	0.5	2SA117	1.0	2G416	1.0	2N1213	1.0	154T1
0.5	2N1397	0.5	2SA118	1.0	2G417	1.0	2N1214	1.0	155T1
0.5	2N1405	0.5	2SA127	1.0	2N117	1.0	2N1215	1.0	156T1
0.5	2N1406	0.5	2SA136	1.0	2N117	1.0	2N1216	1.0	162T1
0.5	2N1407	0.5	2SA137	1.0	2N118	1.0	2N1248	1.0	501T1
0.5	2N1432	0.5	2SA175	1.0	2N118	1.0	2N1276	1.0	503T1
0.5	2N1524	0.5	2SA233	1.0	2N118A	1.0	2N1277	1.0	504T1
0.5	2N1525	0.5	2SA234	1.0	2N119	1.0	2N1278	1.0	505T1
0.5	2N1526	0.5	2SA235	1.0	2N119	1.0	2N1279	1.0	157T1
0.5	2N1527	0.5	2SA236	1.0	2N120	1.0	2N1300	1.0	508T1
0.5	2N1631	0.5	2SA237	1.0	2N120	1.0	2N1384	1.0	AF114
0.5	2N1632	0.5	2SA246	1.0	2N122	1.0	2N1450	1.0	AF115
0.5	2N1633	0.5	2SA254	1.0	2N243	1.0	2N1491	1.0	AF116
0.5	2N1634	0.5	2SA255	1.0	2N244	1.0	2N1645	1.0	AF117
0.5	2N1635	0.5	2SA256	1.0	2N247	1.0	2N1726	1.0	AF124
0.5	2N1636	0.5	2SA257	1.0	2N332	1.0	2N1746	1.0	AF125
0.5	2N1638	0.5	2SA258	1.0	2N332	1.0	2N1748	1.0	AF126
0.5	2N1639	0.5	2SA259	1.0	2N332 USN	1.0	2N1748A	1.0	AF127
0.5	2N1673	0.5	2SA266	1.0	2N333	1.0	2N1749	1.0	AFY10
0.5	2N1699	0.5	2SA267	1.0	2N333	1.0	2N1785	1.0	AFY11

MAX V_{EB}	TRANSISTOR	MAX V_{EB}	TRANSISTOR	MAX V_{EB}	TRANSISTOR	MAX V_{EB}	TRANSISTOR	MAX V_{EB}	TRANSISTOR
1.0	AFY18	2.0	2N474	2.0	2N2834	2.5	2N2635	3.0	10B553
1.0	DS-46	2.0	2N475	2.0	2N2948	2.5	2N2717	3.0	BFY22
1.0	GF-40022	2.0	2N475A	2.0	2N3212	2.5	2N2795	3.0	BFY23
1.0	MM1151	2.0	2N476	2.0	2N3213	2.5	2N2797	3.0	BFY24
1.0	MM1152	2.0	2N478	2.0	2N3214	2.5	2N2857	3.0	FSP-164
1.0	ST903	2.0	2N479	2.0	2N3215	2.5	2N2942	3.0	FSP-215
1.0	ST904	2.0	2N480	2.0	2SA78	2.5	2SB34	3.0	MF1161
1.0	ST904A	2.0	2N480A	2.0	2SA128	2.5	2SB120	3.0	MF1162
1.0	ST905	2.0	2N501	2.0	2SA129	2.5	2SB155	3.0	MF1163
1.0	ST910	2.0	2N501/18	2.0	2SA248	2.5	2SB156	3.0	MF1164
1.0	ST1050	2.0	2N501A	2.0	2SA276	2.5	2SB168	3.0	OC704
1.0	ST1051	2.0	2N501A	2.0	2SB320	2.5	2SB169	3.0	ST1504
1.0	ST3030	2.0	2N541	2.0	2SC18	2.5	2SB199	3.0	ST1505
1.0	ST3031	2.0	2N542	2.0	4C28	2.5	2SB261	3.0	TI485
1.0	SYL2189	2.0	2N543	2.0	4C29	2.5	2SB262	3.0	ZT706
1.0	TI480	2.0	2N543A	2.0	4C30	2.5	2SB263	3.0	ZT1708
1.0	TI481	2.0	2N604	2.0	4C31	2.5	2SD33	3.0	ZT2205
1.0	TI492	2.0	2N643	2.0	201A	3.0	2G381	3.0	ZT2206
1.0	TI493	2.0	2N644	2.0	201B	3.0	2N319	3.0	ZT2708
1.0	TI494	2.0	2N645	2.0	201M	3.0	2N320	3.5	2G104
1.0	TI495	2.0	2N710	2.0	AFZ23	3.0	2N321	3.5	2N695
1.2	2N987	2.0	2N710	2.0	PADT51	3.0	2N339A	3.5	2N705
1.2	2N990	2.0	2N711B	2.0	ST9	3.0	2N340A	3.5	2N705
1.2	2N991	2.0	2N769	2.0	ST10	3.0	2N341A	3.5	2N705
1.2	2N992	2.0	2N839	2.0	ST11	3.0	2N706	3.5	2N705 USN
1.2	2N993	2.0	2N840	2.0	ST12	3.0	2N706	3.5	2N2955
1.2	2N2084	2.0	2N841	2.0	ST13	3.0	2N706	3.5	2N2956
1.2	2N2089	2.0	2N842	2.0	ST14	3.0	2N754	3.5	2N2957
1.2	2N2090	2.0	2N843	2.0	ST15	3.0	2N755	3.5	SYL2120
1.2	2N2091	2.0	2N955	2.0	ST29	3.0	2N835	3.5	T-2092
1.2	2N2092	2.0	2N955A	2.0	ST30	3.0	2N835	4.0	2N332A
1.2	2SA247	2.0	2N961	2.0	ST31	3.0	2N844	4.0	2N333A
1.3	2N962	2.0	2N961	2.0	ST32	3.0	2N845	4.0	2N334A
1.3	2N963	2.0	2N965	2.0	ST33	3.0	2N917	4.0	2N335A
1.3	2N963	2.0	2N965	2.0	ST34	3.0	2N918	4.0	2N336A
1.3	2N966	2.0	2N969	2.0	ST35	3.0	2N947	4.0	2N707
1.3	2N967	2.0	2N973	2.0	ST40	3.0	2N985	4.0	2N707
1.3	2N967	2.0	2N1247	2.0	ST41	3.0	2N1139	4.0	2N707
1.3	2N970	2.0	2N1247	2.0	ST42	3.0	2N1206	4.0	2N709
1.3	2N971	2.0	2N1248	2.0	ST44	3.0	2N1207	4.0	2N709
1.3	2N974	2.0	2N1417	2.0	ST45	3.0	2N1338	4.0	2N709A
1.3	2N975	2.0	2N1418	2.0	ST1026	3.0	2N1339	4.0	2N709/46
1.5	2N370	2.0	2N1492	2.0	T-2038	3.0	2N1340	4.0	2N709A/46
1.5	2N711A	2.0	2N1499A	2.0	T-2039	3.0	2N1341	4.0	2N709/51
1.5	2N711A	2.0	2N1499B	2.0	T-2040	3.0	2N1505	4.0	2N709A/51
1.5	2N768	2.0	2N1500	2.0	T-2122	3.0	2N1505	4.0	2N795
1.5	2N1046	2.0	2N1562	2.0	TI363	3.0	2N1505	4.0	2N796
1.5	2N1046A	2.0	2N1646	2.0	TI364	3.0	2N1561	4.0	2N797
1.5	2N1046B	2.0	2N1693	2.5	2G110	3.0	2N1692	4.0	2N827
1.5	2N1430	2.0	2N1752	2.5	2N337A	3.0	2N1708	4.0	2N907
1.5	2N1637	2.0	2N1754	2.5	2N338A	3.0	2N1710	4.0	2N995
1.5	2N1907	2.0	2N1853	2.5	2N405	3.0	2N1990	4.0	2N996
1.5	2N2095	2.0	2N1854	2.5	2N406	3.0	2N1990/46	4.0	2N1196
1.5	2N2401	2.0	2N2048	2.5	2N407	3.0	2N2205	4.0	2N1197
1.5	2N2671	2.0	2N2168	2.5	2N408	3.0	2N2206	4.0	2N1204
1.5	2N2672	2.0	2N2169	2.5	2N649	3.0	2N2482	4.0	2N1301
1.5	2N2912	2.0	2N2170	2.5	2N781	3.0	2N2616	4.0	2N1335
1.5	2N2962	2.0	2N2188	2.5	2N828	3.0	2N2673	4.0	2N1336
1.5	2N2964	2.0	2N2189	2.5	2N828	3.0	2N2674	4.0	2N1409
1.5	2N2965	2.0	2N2190	2.5	2N829	3.0	2N2675	4.0	2N1409A
1.5	2SB274	2.0	2N2191	2.5	2N960	3.0	2N2676	4.0	2N1410
1.5	2SB275	2.0	2N2402	2.5	2N964	3.0	2N2729	4.0	2N1410A
1.5	2SB276	2.0	2N2529	2.5	2N964	3.0	2N2865	4.0	2N1494
1.5	4D20	2.0	2N2530	2.5	2N964A	3.0	2N2947	4.0	2N1494
1.5	4D21	2.0	2N2531	2.5	2N968	3.0	2N2949	4.0	2N1494A
1.5	4D22	2.0	2N2532	2.5	2N972	3.0	2N2950	4.0	2N1495
2.0	2G103	2.0	2N2533	2.5	2N1751	3.0	2N2996	4.0	2N1496
2.0	2N106	2.0	2N2534	2.5	2N1960	3.0	2S731	4.0	2N1496
2.0	2N3428	2.0	2N2677	2.5	2N2093	3.0	2S732	4.0	2N1506
2.0	2N343B	2.0	2N2678	2.5	2N2357	3.0	2S733	4.0	2N1506
2.0	2N470	2.0	2N2796	2.5	2N2358	3.0	2SB296	4.0	2N1506
2.0	2N471	2.0	2N2798	2.5	2N2359	3.0	2SC20	4.0	2N1678
2.0	2N472	2.0	2N2799	2.5	2N2455	3.0	2SC170	4.0	2N1683
2.0	2N472A	2.0	2N2832	2.5	2N2456	3.0	2SC171	4.0	2N1709
2.0	2N473	2.0	2N2833	2.5	2N2942	3.0	3TX004	4.0	2N2096

4.0

5.0

MAX V_{EB}	TRANSISTOR	MAX V_{EB}	TRANSISTOR	MAX V_{EB}	TRANSISTOR	MAX V_{EB}	TRANSISTOR	MAX V_{EB}	TRANSISTOR
4.0	2N2097	5.0	2N241	5.0	2N784/51	5.0	2N1903	5.0	2N2526
4.0	2N2099	5.0	2N241A	5.0	2N784A	5.0	2N1904	5.0	2N2527
4.0	2N2100	5.0	2N320	5.0	2N784A/46	5.0	2N1908	5.0	2N2528
4.0	2N2137	5.0	2N321	5.0	2N834	5.0	2N1958	5.0	2N2537
4.0	2N2381	5.0	2N322	5.0	2N834	5.0	2N1958A	5.0	2N2538
4.0	2N2382	5.0	2N322	5.0	2N849	5.0	2N1958/18	5.0	2N2539
4.0	2N2475	5.0	2N323	5.0	2N850	5.0	2N1959	5.0	2N2540
4.0	2N2475/46	5.0	2N323	5.0	2N851	5.0	2N1959/18	5.0	2N2540
4.0	2N2475/51	5.0	2N323	5.0	2N852	5.0	2N1959A	5.0	2N2569
4.0	2N2525	5.0	2N324	5.0	2N869	5.0	2N1962	5.0	2N2570
4.0	2N2784	5.0	2N324	5.0	2N909	5.0	2N1963	5.0	2N2580
4.0	2N2784/46	5.0	2N324	5.0	2N914	5.0	2N1964	5.0	2N2581
4.0	2N2784/51	5.0	2N393	5.0	2N914/46	5.0	2N1965	5.0	2N2582
4.0	2N2874	5.0	2N393	5.0	2N914/51	5.0	2N1972	5.0	2N2583
4.0	2N2883	5.0	2N508	5.0	2N915	5.0	2N1983	5.0	2N2639
4.0	2N2884	5.0	2N559 USA	5.0	2N916	5.0	2N1984	5.0	2N2640
4.0	2N2887	5.0	2N696	5.0	2N919	5.0	2N1985	5.0	2N2641
4.0	2N2894	5.0	2N696	5.0	2N920	5.0	2N1985	5.0	2N2642
4.0	2N3021	5.0	2N696	5.0	2N921	5.0	2N1986	5.0	2N2643
4.0	2N3022	5.0	2N697	5.0	2N922	5.0	2N1986	5.0	2N2644
4.0	2N3023	5.0	2N697	5.0	2N929	5.0	2N1987	5.0	2N2651
4.0	2N3024	5.0	2N697	5.0	2N929	5.0	2N1987	5.0	2N2656
4.0	2N3025	5.0	2N697	5.0	2N930	5.0	2N1988	5.0	2N2657
4.0	2N3026	5.0	2N698	5.0	2N930	5.0	2N1988	5.0	2N2697
4.0	2N3033	5.0	2N698	5.0	2N957	5.0	2N1989	5.0	2N2710
4.0	2N3034	5.0	2N699	5.0	2N978	5.0	2N1989	5.0	2N2711
4.0	2N3035	5.0	2N699	5.0	2N1057	5.0	2N1991	5.0	2N2712
4.0	2N3118	5.0	2N699	5.0	2N1057	5.0	2N2086	5.0	2N2713
4.0	2N3119	5.0	2N702	5.0	2N1097	5.0	2N2087	5.0	2N2714
4.0	2N3229	5.0	2N702 USA	5.0	2N1098	5.0	2N2192	5.0	2N2715
4.0	2N3262	5.0	2N703	5.0	2N1131	5.0	2N2192A	5.0	2N2716
4.0	DPT657	5.0	2N703 USA	5.0	2N1131A	5.0	2N2192B	5.0	2N2781
4.0	DT161	5.0	2N706A	5.0	2N1132	5.0	2N2194	5.0	2N2782
4.0	FSP-270-1	5.0	2N706A	5.0	2N1132	5.0	2N2194A	5.0	2N2783
4.0	FT1746	5.0	2N706B	5.0	2N1132A	5.0	2N2194B	5.0	2N2800
4.0	NS731	5.0	2N706B	5.0	2N1198	5.0	2N2195	5.0	2N2801
4.0	NS732	5.0	2N706C	5.0	2N1209	5.0	2N2195A	5.0	2N2802
4.0	NS733	5.0	2N706M JAN	5.0	2N1217	5.0	2N2195B	5.0	2N2803
4.0	NS734	5.0	2N707A	5.0	2N1252	5.0	2N2217	5.0	2N2804
4.0	NS1110	5.0	2N708	5.0	2N1253	5.0	2N2218	5.0	2N2805
4.0	PT600	5.0	2N708	5.0	2N1253	5.0	2N2219	5.0	2N2806
4.0	PT601	5.0	2N708	5.0	2N1253	5.0	2N2220	5.0	2N2807
4.0	ST4201	5.0	2N708/46	5.0	2N1254	5.0	2N2220	5.0	2N2837
4.0	ST4202	5.0	2N708/51	5.0	2N1255	5.0	2N2221	5.0	2N2838
4.0	ST4203	5.0	2N716	5.0	2N1256	5.0	2N2221	5.0	2N2845
4.0	ST4202	5.0	2N717	5.0	2N1257	5.0	2N2222	5.0	2N2846
4.0	ZT709	5.0	2N717	5.0	2N1258	5.0	2N2222	5.0	2N2847
4.0	ZT2475	5.0	2N718	5.0	2N1259	5.0	2N2303	5.0	2N2848
4.5	2N1493	5.0	2N718	5.0	2N1342	5.0	2N2318	5.0	2N2861
4.5	2N1676	5.0	2N719	5.0	2N1411	5.0	2N2319	5.0	2N2862
4.5	2N1677	5.0	2N719	5.0	2N1420	5.0	2N2320	5.0	2N2863
4.5	2N1839	5.0	2N720	5.0	2N1420	5.0	2N2330	5.0	2N2864
4.5	2N2368	5.0	2N720	5.0	2N1506A	5.0	2N2331	5.0	2N2904
4.5	2N2369	5.0	2N721	5.0	2N1506A	5.0	2N2350	5.0	2N2904A
4.5	2N2369A	5.0	2N722	5.0	2N1507	5.0	2N2350A	5.0	2N2905
4.5	2S102	5.0	2N726	5.0	2N1507	5.0	2N2352	5.0	2N2905A
4.5	2S103	5.0	2N727	5.0	2N1564	5.0	2N2352A	5.0	2N2906
4.5	2S104	5.0	2N730	5.0	2N1564	5.0	2N2353	5.0	2N2906A
5.0	2N43	5.0	2N731	5.0	2N1565	5.0	2N2353A	5.0	2N2907
5.0	2N43A	5.0	2N735	5.0	2N1565	5.0	2N2380	5.0	2N2907A
5.0	2N44	5.0	2N736	5.0	2N1566	5.0	2N2380A	5.0	2N2909
5.0	2N78	5.0	2N738	5.0	2N1566	5.0	2N2387	5.0	2N2938
5.0	2N78A	5.0	2N738	5.0	2N1572	5.0	2N2388	5.0	2N2951
5.0	2N94	5.0	2N739	5.0	2N1572	5.0	2N2397	5.0	2N2952
5.0	2N94A	5.0	2N739	5.0	2N1573	5.0	2N2403	5.0	2N3013
5.0	2N167	5.0	2N740	5.0	2N1573	5.0	2N2404	5.0	2N3014
5.0	2N167A	5.0	2N740	5.0	2N1574	5.0	2N2410	5.0	2N3039
5.0	2N186A	5.0	2N743	5.0	2N1574	5.0	2N2411	5.0	2N3040
5.0	2N187A	5.0	2N744	5.0	2N1644	5.0	2N2412	5.0	2N3043
5.0	2N188A	5.0	2N753	5.0	2N1675	5.0	2N2413	5.0	2N3044
5.0	2N193	5.0	2N753	5.0	2N1838	5.0	2N2476	5.0	2N3045
5.0	2N194A	5.0	2N753	5.0	2N1899	5.0	2N2477	5.0	2N3046
5.0	2N212	5.0	2N780	5.0	2N1900	5.0	2N2478	5.0	2N3047
5.0	2N233	5.0	2N783	5.0	2N1901	5.0	2N2479	5.0	2N3048
5.0	2N233A	5.0	2N784	5.0	2N1902	5.0	2N2481	5.0	2N3049

5.0

7.0

MAX V_{EB}	TRANSISTOR	MAX V_{EB}	TRANSISTOR	MAX V_{EB}	TRANSISTOR	MAX V_{EB}	TRANSISTOR	MAX V_{EB}	TRANSISTOR
5.0	2N3050	5.0	BSY62	5.0	XT2C	6.0	2N1718	7.0	2N718A
5.0	2N3051	5.0	BSY63	5.0	XT2D	6.0	2N1718	7.0	2N718A
5.0	2N3052	5.0	BUY12	5.0	ZT83	6.0	2N1719	7.0	2N719A
5.0	2N3053/40053	5.0	BUY13	5.0	ZT84	6.0	2N1719	7.0	2N720A
5.0	2N3079	5.0	DTS-400	5.0	ZT86	6.0	2N1720	7.0	2N870
5.0	2N3080	5.0	FSP-165	5.0	ZT202	6.0	2N1720	7.0	2N870
5.0	2S101	5.0	FSP-242-1	5.0	ZT203	6.0	2N1721	7.0	2N870
5.0	2S131	5.0	FSP-289-1	5.0	ZT204	6.0	2N1721	7.0	2N871
5.0	2SA28	5.0	HA9048	5.0	ZT402	6.0	2N1841	7.0	2N871
5.0	2SC16	5.0	HA9049	5.0	ZT403	6.0	2N1992	7.0	2N871
5.0	2SC16A	5.0	MHT4401	5.0	ZT404	6.0	2N2175	7.0	2N910
5.0	2SC17	5.0	MHT4402	5.0	ZT696	6.0	2N2176	7.0	2N910
5.0	2SC17A	5.0	MHT4411	5.0	ZT697	6.0	2N2177	7.0	2N911
5.0	2SC19	5.0	MHT4412	5.0	ZT708	6.0	2N2178	7.0	2N911
5.0	2SC70	5.0	MHT4413	5.0	ZT2476	6.0	2N2192	7.0	2N912
5.0	2SC74	5.0	MHT4414	5.0	ZT2477	6.0	2N2244	7.0	2N912
5.0	2SC102	5.0	MHT4415	5.5	2SC21	6.0	2N2245	7.0	2N956
5.0	2SC103	5.0	MHT4416	5.5	2SC101	6.0	2N2246	7.0	2N956
5.0	2SC104	5.0	MHT4417	6.0	2N545	6.0	2N2247	7.0	2N956
5.0	2SC110	5.0	MHT4418	6.0	2N546	6.0	2N2248	7.0	2N997
5.0	2SC111	5.0	MHT4419	6.0	2N547	6.0	2N2249	7.0	2N1378
5.0	2SC112	5.0	MHT4501	6.0	2N548	6.0	2N2250	7.0	2N1380
5.0	2SC113	5.0	MHT4502	6.0	2N549	6.0	2N2251	7.0	2N1420A
5.0	2SC114	5.0	MHT4511	6.0	2N550	6.0	2N2252	7.0	2N1613
5.0	2SC116	5.0	MHT4512	6.0	2N551	6.0	2N2253	7.0	2N1613
5.0	2SC117	5.0	MHT4513	6.0	2N552	6.0	2N2254	7.0	2N1613
5.0	2SC118	5.0	MHT4514	6.0	2N735A	6.0	2N2255	7.0	2N1711
5.0	2SC119	5.0	MHT4515	6.0	2N736B	6.0	2N2338	7.0	2N1711
5.0	2SC150	5.0	MHT4516	6.0	2N756	6.0	2N2339	7.0	2N1711
5.0	2SC151	5.0	MHT4517	6.0	2N756A	6.0	2N2483	7.0	2N1711
5.0	2SC152	5.0	MHT4518	6.0	2N757	6.0	2N2484	7.0	2N1711
5.0	2SC166	5.0	MHT4519	6.0	2N757A USA	6.0	2N2501	7.0	2N1889
5.0	2SC167	5.0	MHT6001	6.0	2N761	6.0	2N2515	7.0	2N1890
5.0	2SC172	5.0	MHT7401	6.0	2N762	6.0	2N2523	7.0	2N1893
5.0	3TX002	5.0	MHT7402	6.0	2N864	6.0	2N2524	7.0	2N1893
5.0	3TX003	5.0	MHT7403	6.0	2N864	6.0	2N2595	7.0	2N1893A
5.0	7A30	5.0	MM486	6.0	2N929A	6.0	2N2596	7.0	2N1973
5.0	7A31	5.0	MM487	6.0	2N930A	6.0	2N2597	7.0	2N1973
5.0	7A32	5.0	MM488	6.0	2N1047	6.0	2N2601	7.0	2N1974
5.0	10B551	5.0	MM511	6.0	2N1047A	6.0	2N2602	7.0	2N1974
5.0	10B556	5.0	MM512	6.0	2N1047B	6.0	2N2603	7.0	2N1975
5.0	11B551	5.0	MM513	6.0	2N1048	6.0	2N2604	7.0	2N1975
5.0	11B552	5.0	NS381	6.0	2N1048A	6.0	2N2605	7.0	2N2049
5.0	11B560	5.0	NS382	6.0	2N1048B	6.0	2N3081	7.0	2N2060
5.0	11C1B1	5.0	PT530A	6.0	2N1049	6.0	2S306	7.0	2N2102
5.0	11C1F1	5.0	PT613	6.0	2N1049A	6.0	2S326	7.0	2N2223
5.0	11C3B1	5.0	PT692	6.0	2N1049B	6.0	2SB156A	7.0	2N2223A
5.0	11C3F1	5.0	PT850	6.0	2N1050	6.0	31N2	7.0	2N2243
5.0	11C5B1	5.0	PT850A	6.0	2N1050A	6.0	41N2	7.0	2N2243A
5.0	11C5F1	5.0	PT851	6.0	2N1050B	6.0	42N2	7.0	2N2270
5.0	11C7B1	5.0	PT901	6.0	2N1054	6.0	C118	7.0	2N2297
5.0	11C7F1	5.0	PT901-1	6.0	2N1060	6.0	C119	7.0	2N2364
5.0	11C11B1	5.0	PT902	6.0	2N1072 USA	6.0	CTP1133	7.0	2N2364A
5.0	11C11F1	5.0	PT903	6.0	2N1116	6.0	NS475	7.0	2N2868
5.0	11C201B20	5.0	PT903-1	6.0	2N1117	6.0	NS476	7.0	2N2405
5.0	11C203B20	5.0	RT5001	6.0	2N1132B	6.0	NS477	7.0	2N2433
5.0	11C205B20	5.0	RT5002	6.0	2N1132B	6.0	TI486	7.0	2N2434
5.0	11C207B20	5.0	RT5003	6.0	2N1427	6.0	TI487	7.0	2N2435
5.0	11C211B20	5.0	RT5004	6.0	2N1429	6.0	ZT20	7.0	2N2436
5.0	11C551	5.0	ST401	6.0	2N1429	6.0	ZT21	7.0	2N2437
5.0	11C557	5.0	ST440	6.0	2N1429	6.0	ZT22	7.0	2N2438
5.0	11C702	5.0	ST450	6.0	2N1444	6.0	ZT23	7.0	2N2439
5.0	101A	5.0	ST4150	6.0	2N1647	6.0	ZT24	7.0	2N2440
5.0	101B	5.0	TA6200	6.0	2N1648	6.0	ZT40	7.0	2N2443
5.0	101M	5.0	TF49	6.0	2N1649	6.0	ZT41	7.0	2N2509
5.0	BFY12	5.0	TI482	6.0	2N1650	6.0	ZT42	7.0	2N2510
5.0	BFY13	5.0	TI483	6.0	2N1700	6.0	ZT43	7.0	2N2511
5.0	BFY14	5.0	TI484	6.0	2N1701	6.0	ZT44	7.0	2N2590
5.0	BFY29	5.0	TI490	6.0	2N1702	6.0	ZT50	7.0	2N2591
5.0	BFY30	5.0	XT1A	6.0	2N1703	6.0	ZT1700	7.0	2N2592
5.0	BSY18	5.0	XT1B	6.0	2N1704	7.0	2N698	7.0	2N2593
5.0	BSY34	5.0	XT1C	6.0	2N1714	7.0	2N698	7.0	2N2598
5.0	BSY51	5.0	XT1D	6.0	2N1715	7.0	2N698	7.0	2N2599
5.0	BSY52	5.0	XT2A	6.0	2N1716	7.0	2N699B	7.0	2N2600
5.0	BSY58	5.0	XT2B	6.0	2N1717	7.0	2N718A	7.0	2N2618

MAX V_{EB}	TRANSISTOR	MAX V_{EB}	TRANSISTOR	MAX V_{EB}	TRANSISTOR	MAX V_{EB}	TRANSISTOR	MAX V_{EB}	TRANSISTOR
7.0	2N2618/46	8.0	2N739A	8.0	2S018	10	2N301	10	2N1371
7.0	2N2645	8.0	2N740A	8.0	2S019	10	2N301A	10	2N1408
7.0	2N2895	8.0	2N742	8.0	2S020	10	2N306	10	2N1413
7.0	2N2896	8.0	2N742A	8.0	2S711	10	2N389	10	2N1413
7.0	2N2897	8.0	2N758	8.0	2S712	10	2N389	10	2N1414
7.0	2N2898	8.0	2N758A	8.0	2SC12	10	2N389 USN	10	2N1414
7.0	2N2899	8.0	2N759	8.0	11C704	10	2N389A	10	2N1415
7.0	2N2900	8.0	2N759A USA	8.0	32N2	10	2N424	10	2N1415
7.0	2N2939	8.0	2N759B	8.0	34N2	10	2N424	10	2N1431
7.0	2N2940	8.0	2N760	8.0	35N2	10	2N424A	10	2N1487
7.0	2N2941	8.0	2N760A	8.0	38N2	10	2N444A	10	2N1487
7.0	2N2987	8.0	2N760A USA	8.0	39N2	10	2N445A	10	2N1488
7.0	2N2988	8.0	2N760B	8.0	40N2	10	2N446A	10	2N1488
7.0	2N2989	8.0	2N915	8.0	DT1510	10	2N447A	10	2N1489
7.0	2N2990	8.0	2N1051	8.0	DT1511	10	2N450	10	2N1489
7.0	2N2991	8.0	2N1210	8.0	DT1512	10	2N460	10	2N1490
7.0	2N2992	8.0	2N1211	8.0	DT4110	10	2N461	10	2N1490
7.0	2N2993	8.0	2N1510	8.0	DT4111	10	2N461 USAF	10	2N1511
7.0	2N2994	8.0	2N1566A	8.0	DT4112	10	2N519	10	2N1512
7.0	2N3036	8.0	2N1616	8.0	DT4120	10	2N519A	10	2N1513
7.0	2N3037	8.0	2N1616	8.0	DT4121	10	2N520	10	2N1514
7.0	2N3038	8.0	2N1617	8.0	MHT4451	10	2N520	10	2N1694
7.0	2N3054	8.0	2N1617	8.0	MHT4452	10	2N520A	10	2N1722
7.0	2N3055	8.0	2N1617	8.0	MHT4453	10	2N521	10	2N1723
7.0	2N3108	8.0	2N1618	8.0	MHT4454	10	2N521A	10	2N1724
7.0	2N3110	8.0	2N1618	8.0	MHT4455	10	2N522	10	2N1725
7.0	2N3263	8.0	2N1618	8.0	MHT4456	10	2N522A	10	2N2015
7.0	2N3264	8.0	2N1620	8.0	MHT4551	10	2N523	10	2N2016
7.0	2N3265	8.0	2N1837	8.0	MHT4552	10	2N523A	10	2N2101
7.0	2N3266	8.0	2N1837A	8.0	MHT4553	10	2N556	10	2N2172
7.0	11B554	8.0	2N2008	8.0	MHT4554	10	2N557	10	2N2173
7.0	11B555	8.0	2N2017	8.0	MHT4555	10	2N581	10	2N2201
7.0	11B556	8.0	2N2106	8.0	MHT4556	10	2N583	10	2N2202
7.0	11C10B1	8.0	2N2107	8.0	MHT6011	10	2N611	10	2N2203
7.0	11C10F1	8.0	2N2108	8.0	MHT6012	10	2N669	10	2N2204
7.0	11C210B20	8.0	2N2150	8.0	MHT6013	10	2N779A	10	2N2225
7.0	11C553	8.0	2N2151	8.0	MHT6014	10	2N782	10	2N2271
7.0	11C710	8.0	2N2193	8.0	MHT6015	10	2N846A	10	2N2280
7.0	BFY33	8.0	2N2193A	8.0	MHT6016	10	2N862	10	2N2280
7.0	BFY34	8.0	2N2193B	8.0	MHT8002	10	2N862	10	2N2428
7.0	BSY53	8.0	2N2196	8.0	MHT8003	10	2N863	10	2N2429
7.0	BSY54	8.0	2N2197	8.0	NS478	10	2N863	10	2N2430
7.0	BSY55	8.0	2N2351	8.0	NS479	10	2N865	10	2N2654
7.0	BSY56	8.0	2N2351A	8.0	NS480	10	2N979	10	2N2692
7.0	FM870	8.0	2N2459	8.0	ZT91	10	2N980	10	2N2693
7.0	FM871	8.0	2N2460	8.0	ZT92	10	2N982	10	2N2694
7.0	FSP-42	8.0	2N2461	9.0	2N1069	10	2N983	10	2N2706
7.0	FSP-42-1	8.0	2N2462	9.0	2N1069	10	2N984	10	2N2726
7.0	FSP-166	8.0	2N2463	9.0	2N1070	10	2N1010	10	2N2727
7.0	FSP-166-1	8.0	2N2464	9.0	2N1070	10	2N1059	10	2N2835
7.0	SP8400	8.0	2N2465	9.0	2SA64	10	2N1101	10	2N2869
7.0	SP8401	8.0	2N2466	10	2G301	10	2N1102	10	2N2870
7.0	SP8402	8.0	2N2516	10	2G302	10	2N1115	10	2S024
7.0	ZT1613	8.0	2N2518	10	2G303	10	2N1118	10	2S025
7.0	ZT1711	8.0	2N2519	10	2G304	10	2N1118	10	2S026
7.0	ZT2270	8.0	2N2520	10	2G306	10	2N1118	10	2S721
7.9	2N2279/51	8.0	2N2512	10	2G308	10	2N1119	10	2S722
8.0	2N497	8.0	2N2522	10	2G309	10	2N1119	10	2S723
8.0	2N497	8.0	2N2632	10	2G371	10	2N1119	10	2S724
8.0	2N497	8.0	2N2633	10	2G374	10	2N1175	10	2SB39
8.0	2N497A	8.0	2N2634	10	2G376	10	2N1175	10	2SB73
8.0	2N498	8.0	2N2658	10	2G377	10	2N1208	10	2SB80
8.0	2N498	8.0	2N2698	10	2G382	10	2N1212	10	2SB302
8.0	2N498	8.0	2N2811	10	2N35	10	2B1221	10	2SD61
8.0	2N498A	8.0	2N2812	10	2N123	10	2N1221	10	2SD62
8.0	2N560 JAN	8.0	2N2813	10	2N123/5	10	2N1221	10	2SD124
8.0	2N560 JAN	8.0	2N2814	10	2N123A	10	2N1222	10	2SD125
8.0	2N656	8.0	2N2877	10	2N128	10	2N1222	10	2T681
8.0	2N656	8.0	2N2879	10	2N129	10	2N1222	10	2T682
8.0	2N656	8.0	2N2880	10	2N176	10	2N1223	10	7B1
8.0	2N656A	8.0	2N2983	10	2N176	10	2N1223	10	7B2
8.0	2N657	8.0	2N2984	10	2N176	10	2N1223	10	7C1
8.0	2N657	8.0	2N2985	10	2N213	10	2N1273	10	7C2
8.0	2N657A	8.0	2N2986	10	2N213A	10	2N1274	10	7C3
8.0	2N736A	8.0	2S017	10	2N228	10	2N1370	10	7D1

MAX V_{EB}	TRANSISTOR	MAX V_{EB}	TRANSISTOR	MAX V_{EB}	TRANSISTOR	MAX V_{EB}	TRANSISTOR	MAX V_{EB}	TRANSISTOR
10	7D2	12	2N404	12	2N1614	12	2SB265	15	2N526
10	7D3	12	2N404	12	2N1684	12	2SB290	15	2N526A
10	7E1	12	2N404	12	2N1768	12	2SB291	15	2N526 JAN
10	7E2	12	2N404 USAF	12	2N1769	12	2SB292	15	2N527
10	7E3	12	2N464	12	2N1781	12	2SB292A	15	2N527A
10	7F1	12	2N464	12	2N2164	12	2SB321	15	2N554
10	7F2	12	2N464	12	2N2167	12	2SB322	15	2N555
10	7F3	12	2N465	12	2SA18	12	2SB323	15	2N558
10	7F4	12	2N465	12	2SA37	12	2SB367	15	2N576
10	7G1	12	2N465	12	2SA38	12	2SB368	15	2N576A
10	7G2	12	2N465 USA	12	2SA39	12	2SB370	15	2N626 JAN
10	7G3	12	2N466	12	2SA40	12	2SC11	15	2N634
10	7G4	12	2N466	12	2SA40	12	2SC13	15	2N635
10	130-04	12	2N466	12	2SA49	12	2SC14	15	2N636
10	130-06	12	2N466 JAN	12	2SA50	12	2SC71	15	2N679
10	130-08	12	2N467	12	2SA51	12	2SC72	15	2N838
10	130-10	12	2N467	12	2SA52	12	2SD37	15	2N914
10	156-04	12	2N467	12	2SA53	12	2SD43	15	2N1008
10	156-06	12	2N467 USA	12	2SA65	12	2SD44	15	2N1008A
10	156-08	12	2N482	12	2SA66	12	2SD75	15	2N1008B
10	156-10	12	2N578	12	2SA67	12	2SD75A	15	2N1024
10	AD121	12	2N579	12	2SA208	12	2SD77	15	2N1056
10	AC127	12	2N580	12	2SA209	12	2SD120	15	2N1114
10	AC151	12	2N582	12	2SA210	12	2SD121	15	2N1189
10	AC152	12	2N582	12	2SA211	12	2SD122	15	2N1190
10	AC153	12	2N584	12	2SA212	12	2SD123	15	2N1228
10	AC162	12	2N586	12	2SA217	12	2SD191	15	2N1229
10	AC163	12	2N618	12	2SA277	12	2SD192	15	2N1238
10	ACY33	12	2N647	12	2SA278	12	2SD193	15	2N1239
10	AD130	12	2N658	12	2SA282	12	2SD194	15	2N1292
10	AD133	12	2N658	12	2SA283	12	2T3011	15	2N1294
10	AD136	12	2N658	12	2SA284	12	2T3021	15	2N1299
10	AD148	12	2N659	12	2SA304	12	C302	15	2N1321
10	AD149	12	2N659	12	2SA305	12	CA2D2	15	2N1323
10	AD150	12	2N660	12	2SB37	12	CB1F4	15	2N1325
10	ADY27	12	2N660	12	2SB38	12	CK22	15	2N1326
10	CTP1117	12	2N661	12	2SB41	12	CK64	15	2N1372
10	DT1110	12	2N661	12	2SB42	12	CK65	15	2N1374
10	DT1111	12	2N662	12	2SB43	12	CK66	15	2N1376
10	DT1112	12	2N662	12	2SB44	12	CK67	15	2N1379
10	DT1120	12	2N1028	12	2SB46	12	MHM1001	15	2N1381
10	DT1121	12	2N1028	12	2SB47	12	MHM1101	15	2N1382
10	DT1122	12	2N1067	12	2SB54	12	MHM2001	15	2N1383
10	DT1520	12	2N1067	12	2SB55	12	MHM2101	15	2N1465
10	DT1521	12	2N1068	12	2SB56	12	ZT1479	15	2N1466
10	DT1522	12	2N1068	12	2SB61	12	ZT1480	15	2N1473
10	GT-81	12	2N1092	12	2SB62	12	ZT1481	15	2N1809
10	GT-74	12	2N1359	12	2SB63	12	ZT1482	15	2N1810
10	GT-81	12	2N1360	12	2SB65	12	ZT1483	15	2N1811
10	GT-109	12	2N1362	12	2SB66	12	ZT1484	15	2N1812
10	MA286	12	2N1363	12	2SB67	12	ZT1485	15	2N1813
10	MA287	12	2N1364	12	2SB75	12	ZT1486	15	2N1814
10	MA288	12	2N1365	12	2SB75A	14	TF78/60	15	2N1816
10	OC44	12	2N1479	12	2SB77	15	2N43A	15	2M1817
10	OC45	12	2N1480	12	2SB77A	15	2N44	15	2N1818
10	OC702B	12	2N1481	12	2SB81	15	2N45	15	2N1819
10	ST400	12	2N1482	12	2SB82	15	2N255	15	2N1823
10	TF78/30	12	2N1483	12	2SB89	15	2N255A	15	2N1824
10	ZT1487	12	2N1484	12	2SB90	15	2N256A	15	2N1825
10	ZT1488	12	2N1485	12	2SB91	15	2N257	15	2N1826
10	ZT1489	12	2N1486	12	2SB94	15	2N312	15	2N1830
10	ZT1490	12	2N1539	12	2SB97	15	2N377	15	2N1831
10	ZT1511	12	2N1540	12	2SB131	15	2N377A	15	2N1832
10	ZT1512	12	2N1541	12	2SB132	15	2N385	15	2N1833
10	ZT1513	12	2N1542	12	2SB140	15	2N385A	15	2N2109
10	ZT1514	12	2N1543	12	2SB141	15	2N388	15	2N2110
12	2N206	12	2N1544	12	2SB180	15	2N388	15	2N2111
12	2N270	12	2N1545	12	2SB180A	15	2N388A	15	2N2112
12	2N301	12	2N1546	12	2SB181	15	2N388A	15	2N2113
12	2N301A	12	2N1547	12	2SB181A	15	2N388 USN	15	2N2114
12	2N331	12	2N1548	12	2SB189	15	2N519	15	2N2116
12	2N331 JAN	12	2N1605	12	2SB200	15	2N524	15	2N2117
12	2N331M	12	2N1605	12	2SB201	15	2N524A	15	2N2118
12	2N375	12	2N1605A	12	2SB202	15	2N525	15	2N2119
12	2N404	12	2N1605A	12	2SB257	15	2N525A	15	2N2123

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MAX V_{EB}	TRANSISTOR	MAX V_{EB}	TRANSISTOR	MAX V_{EB}	TRANSISTOR	MAX V_{EB}	TRANSISTOR	MAX V_{EB}	TRANSISTOR
15	2N2124	15	109XB	18	2N1027	20	2N595	20	2N1534A
15	2N2125	15	109XC	18	2N1027	20	2N596	20	2N1535A
15	2N2126	15	109XD	20	2G210	20	2N627	20	2N1539
15	2N2130	15	153-04	20	2N178	20	2N653	20	2N1539
15	2N2131	15	153-05	20	2N229	20	2N663	20	2N1539A
15	2N2132	15	153-06	20	2N250A	20	2N860	20	2N1544
15	2N2133	15	153-07	20	2N251A	20	2N861	20	2N1544A
15	2N2137	15	150-08	20	2N277	20	2N861	20	2N1549
15	2N2137A	15	153-09	20	2N315	20	2N914	20	2N1549
15	2N2142	15	153-10	20	2N315A	20	2N935	20	2N1549A
15	2N2142A	15	153-12	20	2N316	20	2N935	20	2N1553
15	2N2163	15	153-14	20	2N316A	20	2N936	20	2N1553
15	2N2166	15	153-16	20	2N317	20	2N936	20	2N1553A
15	2N2226	15	153-18	20	2N317A	20	2N937	20	2N1557
15	2N2227	15	153-20	20	2N327A	20	2N937	20	2N1557
15	2N2228	15	154-04	20	2N327B	20	2N1017	20	2N1557A
15	2N2229	15	154-05	20	2N328A	20	2N1018	20	2N1611
15	2N2230	15	154-06	20	2N328A	20	2N1021	20	2N1612
15	2N2231	15	154-07	20	2N328B	20	2N1022	20	2N1643
15	2N2232	15	154-08	20	2N329A	20	2N1034	20	2N1643
15	2N2233	15	154-09	20	2N329B	20	2N1034	20	2N1808
15	2N2276	15	154-10	20	2N330A	20	2N1034	20	2N1969
15	2N2276	15	154-12	20	2N356	20	2N1035	20	2N1996
15	2N2278	15	154-14	20	2N356A	20	2N1035	20	2N1999
15	2N2278	15	154-16	20	2N357	20	2N1035	20	2N2000
15	2N2332	15	154-18	20	2N357	20	2N1036	20	2N2001
15	2N2333	15	154-20	20	2N357A	20	2N1036	20	2N2078
15	2N2370	15	163-04	20	2N358	20	2N1036	20	2N2078A
15	2N2371	15	163-05	20	2N358A	20	2N1036	20	2N2082
15	2N2372	15	163-06	20	2N379	20	2N1037	20	2N2082A
15	2N2373	15	163-07	20	2N380	20	2N1037	20	2N2424
15	2N2432	15	163-08	20	2N381	20	2N1037	20	2N2424
15	2N2728	15	163-09	20	2N382	20	2N1037	20	2N2617
15	2N2739	15	163-10	20	2N383	20	2N1037	20	2N2659
15	2N2740	15	163-12	20	2N394	20	2N1038	20	2N2660
15	2N2741	15	163-14	20	2N395	20	2N1039	20	2N2661
15	2N2742	15	163-16	20	2N395	20	2N1039	20	2N2662
15	2N2745	15	163-18	20	2N396	20	2N1039 USN	20	2N2663
15	2N2746	15	163-20	20	2N396	20	2N1040	20	2N2664
15	2N2747	15	164-04	20	2N396A	20	2N1041	20	2N2665
15	2N2748	15	164-05	20	2N396A	20	2N1041 USN	20	2N2666
15	2N2751	15	164-06	20	2N396A USN	20	2N1042	20	2N2667
15	2N2752	15	164-07	20	2N397	20	2N1043	20	2N2668
15	2N2753	15	164-08	20	2N397	20	2N1044	20	2N2669
15	2N2754	15	164-09	20	2N413	20	2N1045	20	2N2670
15	2N2757	15	164-10	20	2N413	20	2N1090	20	2N2827
15	2N2758	15	164-12	20	2N413A	20	2N1091	20	2S302
15	2N2759	15	164-14	20	2N414	20	2N1091	20	2S302
15	2N2760	15	164-16	20	2N414	20	2N1159	20	2S303
15	2N2761	15	164-18	20	2N414A	20	2N1160	20	2S303
15	2N2763	15	164-20	20	2N416	20	2N1168	20	2S322
15	2N2764	15	C402	20	2N416	20	2N1172	20	2S323
15	2N2765	15	GT-123	20	2N417	20	2N1183	20	2SA240
15	2N2766	15	HA7522	20	2N417	20	2N1183A	20	2SB331
15	2N2769	15	HA7526	20	2N417	20	2N1183B	20	2SC89
15	2N2770	15	HA7532	20	2N425	20	2N1184	20	2SC90
15	2N2771	15	HA7536	20	2N425	20	2N1184A	20	2SC91
15	2N2772	15	LT5165	20	2N426	20	2N1184B	20	2SC179
15	2N2826	15	MA112	20	2N426	20	2N1219	20	2SC180
15	2S304	15	MA113	20	2N427	20	2N1219	20	2SC181
15	2S304	15	MA114	20	2N427	20	2N1219	20	64T1
15	2S307	15	MA115	20	2N428	20	2N1220	20	65T1
15	2S324	15	MA116	20	2N428	20	2N1220	20	146T1
15	2S327	15	MA117	20	2N428	20	2N1220	20	AD131
15	2SB53	15	OC702A	20	2N441	20	2N1310	20	AD132
15	2T383	15	OC740	20	2N441	20	2N1311	20	AUY18
15	109UA	15	OC740M	20	2N441	20	2N1312	20	AUY19
15	109UB	15	OC740Q	20	2N456A	20	2N1319	20	AUY20
15	109UC	16	ACY23	20	2N457A	20	2N1404	20	AUY21
15	109UD	16	ACY32	20	2N458A	20	2N1404	20	AUY22
15	109WA	16	ASY48	20	2N503	20	2N1478	20	BCZ11
15	109WB	16	ASY70	20	2N535	20	2N1529	20	CTP1135
15	109WC	17	2SA17	20	2N538A	20	2N1529A	20	CTP1136
15	109WD	18	2N1024	20	2N585	20	2N1530A	20	DS-503
15	109XA	18	2N1024	20	2N594	20	2N1534	20	DS-504

MAX V_{EB}	TRANSISTOR	MAX V_{EB}	TRANSISTOR	MAX V_{EB}	TRANSISTOR	MAX V_{EB}	TRANSISTOR	MAX V_{EB}	TRANSISTOR
20	DS-520	25	2N1016D	25	152-09	30	2N158A	30	2N1641
20	DS-525	25	2N1016E	25	152-10	30	2N256	30	2N1642
20	ES3110	25	2N1162	25	C202	30	2N278	30	2N1993
20	ES3111	25	2N1162A	25	MP500	30	2N442	30	2N1994
20	ES3112	25	2N1163	25	MP500A	30	2N442	30	2N1998
20	ES3113	25	2N1163A	25	MP504	30	2N456B	30	2N2002
20	ES3114	25	2N1169	25	MP504A	30	2N457B	30	2N2003
20	ES3115	25	2N1191	25	OC700	30	2N458B	30	2N2076
20	ES3116	25	2N1192	25	OC700A	30	2N511	30	2N2139
20	ES3120	25	2N1193	25	OC700B	30	2N511A	30	2N2139A
20	ES3121	25	2N1194	25	OC702	30	2N511B	30	2N2144
20	ES3122	25	2N1302	25	OC742	30	2N512	30	2N2144A
20	ES3123	25	2N1303	25	OC742M	30	2N512A	30	2N2153
20	ES3124	25	2N1303	25	OC742Q	30	2N512B	30	2N2153A
20	ES3125	25	2N1304	28	2N538	30	2N513	30	2N2157
20	ES3126	25	2N1305	28	2N538	30	2N513A	30	2N2157A
20	GA-52829	25	2N1305	28	2N538A	30	2N513B	30	2N2162
20	GT-1200	25	2N1306	28	2N538A	30	2N514	30	2N2165
20	HA7599	25	2N1307	28	2N539	30	2N514A	30	2N2185
20	HA7630	25	2N1307	28	2N539	30	2N514B	30	2N2185
20	HA7632	25	2N1308	28	2N539A	30	2N554	30	2N2334
20	HA7730	25	2N1309	28	2N539A	30	2N628	30	2N2335
20	HA7732	25	2N1309	28	2N540	30	2N650	30	2N2425
20	MHT1804	25	2N1309	28	2N540	30	2N650	30	2N2425
20	MHT1904	25	2N1359	28	2N540A	30	2N650 USN	30	2N2491
20	MHT2004	25	2N1360	28	2N540A	30	2N650A	30	2N2648
20	OC201	25	2N1373	28	2N574	30	2N651	30	2S301
20	T-1872	25	2N1375	28	2N574A	30	2N651	30	2S301
22	CK790	25	2N1377	28	2N575	30	2N651A	30	2S321
22	CK791	25	2N1413	28	2N575A	30	2N651 USN	30	2SB67A
22	CK793	25	2N1917	28	2N1157	30	2N652	30	2SB149
25	2N214	25	2N1917	28	2N1157A	30	2N652	30	147T1
25	2N404A	25	2N1917	28	2N1202	30	2N652	30	C101
25	2N404A	25	2N1918	28	2N1202	30	2N652 USN	30	C102
25	2N438	25	2N1918	28	2N1203	30	2N1021A	30	C103
25	2N438	25	2N1918	28	2N1203	30	2N1022A	30	C106
25	2N438A	25	2N1924	28	2N1261	30	2N1146	30	CDT1310
25	2N439	25	2N1925	28	2N1261	30	2N1146A	30	CDT1311
25	2N439A	25	2N1926	28	2N1262	30	2N1146B	30	CDT1312
25	2N440	25	2N1995	28	2N1262	30	2N1146C	30	CDT1313
25	2N440	25	2N2077	28	2N1263	30	2N1147	30	CDT1319
25	2N440A	25	2N2077A	28	2N1263	30	2N1147A	30	CDT1320
25	2N634A	25	2N2081	28	2N1501	30	2N1147B	30	CDT1321
25	2N635A	25	2N2081A	28	2N1501	30	2N1147C	30	CDT1322
25	2N636A	25	2N2138	28	2N1502	30	2N1185	30	CK256
25	2N653	25	2N2138A	28	2N1502	30	2N1186	30	CK311
25	2N653	25	2N2143	28	2N2266	30	2N1187	30	CK312
25	2N654	25	2N2143A	28	2N2267	30	2N1188	30	CK313
25	2N655	25	2N2152	28	2N2268	30	2N1437	30	CK314
25	2N858	25	2N2152A	28	2N2269	30	2N1438	30	CK315
25	2N858	25	2N2156	28	3N45	30	2N1504	30	CTP1500
25	2N859	25	2N2156A	28	3N46	30	2N1504/10	30	CTP1503
25	2N859	25	2N2274	28	3N47	30	2N1518	30	CTP1504
25	2N860	25	2N2274	28	3N48	30	2N1519	30	CTP1508
25	2N941	25	2N2613	28	3N49	30	2N1520	30	CTP1544
25	2N941	25	2N2614	28	3N51	30	2N1521	30	CTP1545
25	2N942	25	2N2953	28	3N52	30	2N1522	30	CTP1552
25	2N1015	25	2SB124	28	H12	30	2N1523	30	CTP1553
25	2N1015	25	2SB125	28	H12A	30	2N1530	30	CTP3500
25	2N1015A	25	2SB148	28	H45	30	2N1535	30	CTP3503
25	2N1015A	25	2SB235	30	2G220	30	2N1540	30	CTP3504
25	2N1015B	25	2SB236	30	2G221	30	2N1540	30	CTP3508
25	2N1015B	25	2SB237	30	2G222	30	2N1540A	30	CTP3544
25	2N1015C	25	151-04	30	2G223	30	2N1545	30	CTP3545
25	2N1015C	25	151-05	30	2G224	30	2N1545A	30	CTP3552
25	2N1015D	25	151-06	30	2G226	30	2N1550	30	CTP3553
25	2N1015E	25	151-07	30	2G227	30	2N1550	30	DS-501
25	2N1016	25	151-08	30	2G228	30	2N1550A	30	DS-505
25	2N1016	25	151-09	30	2G229	30	2N1554	30	DS-506
25	2N1016A	25	151-10	30	2G230	30	2N1554	30	HA7597
25	2N1016A	25	152-04	30	2G231	30	2N1554A	30	LT-11
25	2N1016B	25	152-05	30	2N156	30	2N1558	30	LT-12
25	2N1016B	25	152-06	30	2N156	30	2N1558	30	LT-13
25	2N1016C	25	152-07	30	2N158	30	2N1558A	30	LT-14
25	2N1016C	25	152-08	30	2N158A	30	2N1640	30	LT-15

MAX V_{EB}	TRANSISTOR	MAX V_{EB}	TRANSISTOR	MAX V_{EB}	TRANSISTOR	MAX V_{EB}	TRANSISTOR	MAX V_{EB}	TRANSISTOR
30	MHT1802	40	2N665	40	2SB122	50	2N1362	60	2N2007
30	MHT1803	40	2N665 SIG.C	40	2SB202	50	2N1363	60	2N2492
30	MHT1902	40	2N923	40	2SB203	50	2N1439	60	2SB151
30	MHT1903	40	2N938	40	2SB204	50	2N1441	60	2SB152
30	MHT2002	40	2N939	40	2SB205	50	2N1442	60	2SB334
30	MHT2003	40	2N940	40	2SB206	50	2N1443	60	CK258
30	MP501	40	2N940	40	2SB207	50	2N1532	60	DS-502
30	MP501A	40	2N943	40	2SB208	50	2N1532A	60	HA7524
30	MP505	40	2N943	40	2SB209	50	2N1537	60	HA7528
30	MP505A	40	2N944	40	2SB210	50	2N1537A	60	HA7531
30	NS661	40	2N944	40	2SB211	50	2N1542	60	HA7534
30	NS665	40	2N957	40	2SB212	50	2N1542	60	HA7538
30	OC701	40	2N1000	40	2SB213	50	2N1542A	70	2N927
30	OC703	40	2N1011	40	2SB214	50	2N1547	70	2N928
30	OC703A	40	2N1011	40	2SB332	50	2N1547A	70	2N1100
30	T34D	40	2N1011 SIG.C	40	2SB333	50	2N1552	70	C301
30	T34E	40	2N1011 USA	40	2SC153	50	2N1552	75	2N398B
30	T34F	40	2N1025	40	C201	50	2N1552A	075	2N2042
30	T-2357	40	2N1026	40	C401	50	2N1556	75	2N2042A
30	XH10	40	2N1099	40	GA-52830	50	2N1556A	075	2N2043
32	2N2080	40	2N1099	40	GA-53242	50	2N1560	075	2N2043A
32	DS-44	40	2N1120	40	H10	50	2N1560A	80	2N946
32	OC26	40	2N1120 USA	40	H15A	50	2N1921	80	2N946
35	2N301	40	2N1164	40	H15B	50	2N1921	80	2N1100
35	2N326	40	2N1164	40	HA7631	50	2N2004	80	2N1100
35	2N721	40	2N1164A	40	HA7633	50	2N2004	80	2N1922
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35	2N1173	40	2N1170	40	L15A	50	2N2337	80	DT100
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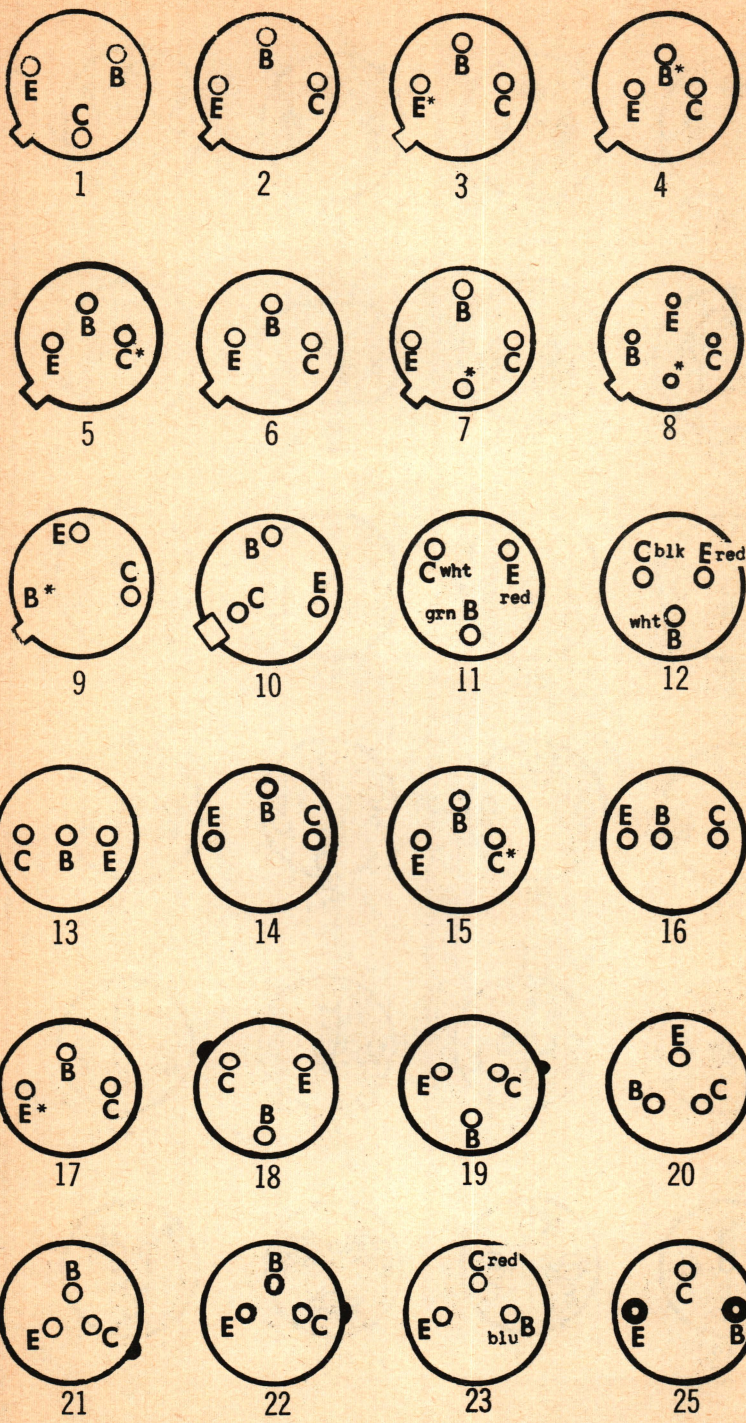
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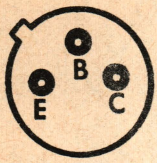

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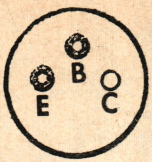

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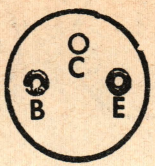

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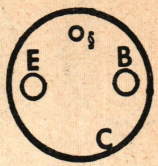

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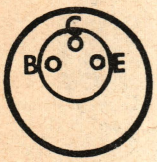

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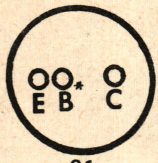

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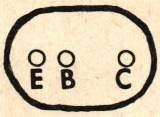

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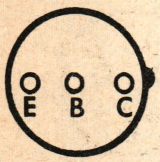

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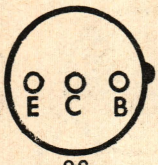

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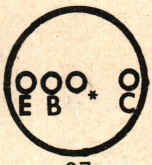

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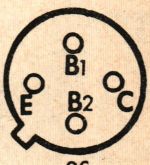

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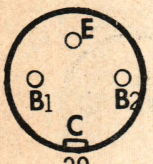

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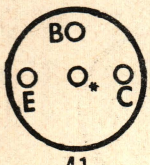

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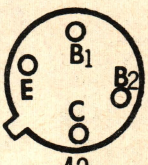

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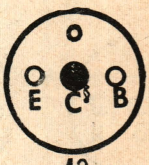

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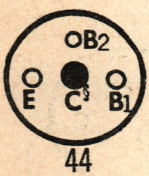

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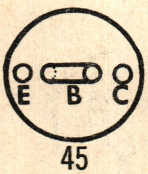

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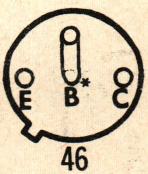

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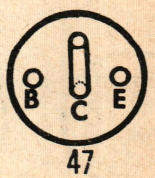

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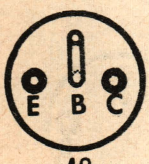

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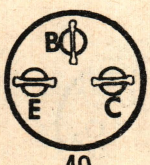

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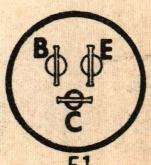

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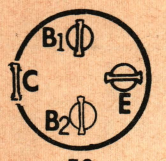

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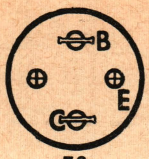

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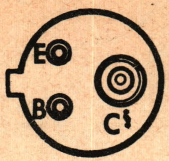

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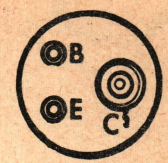

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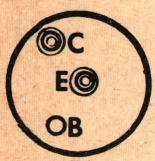

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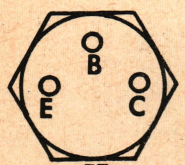

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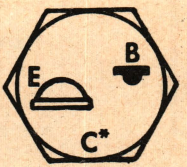

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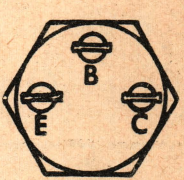

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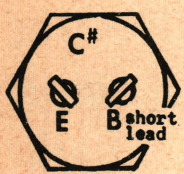

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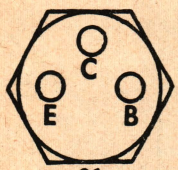

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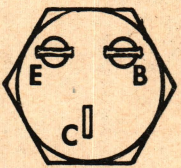

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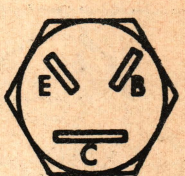

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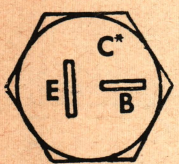

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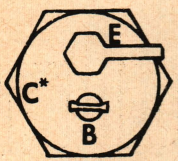

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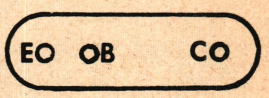

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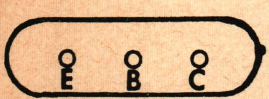

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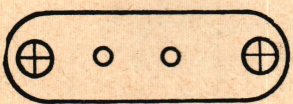
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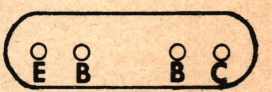

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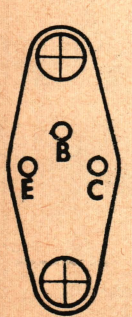

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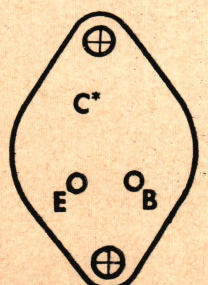

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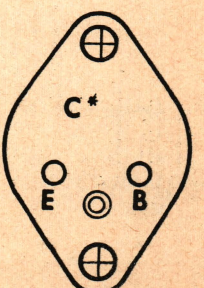

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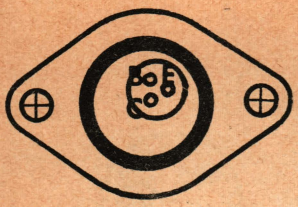

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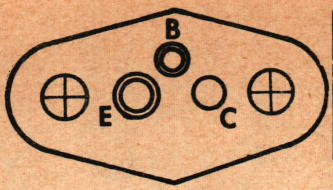

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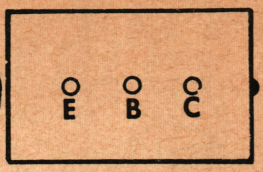

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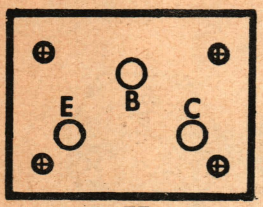

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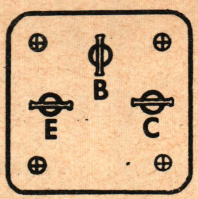

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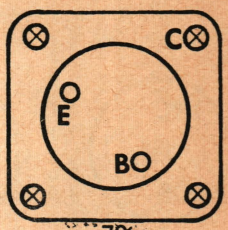

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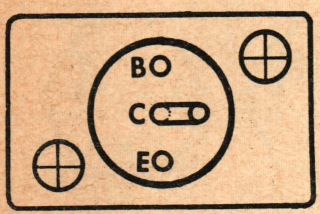

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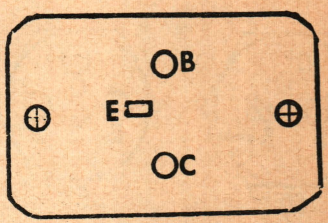

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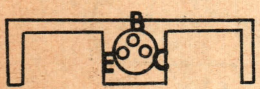

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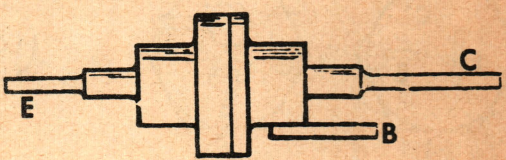

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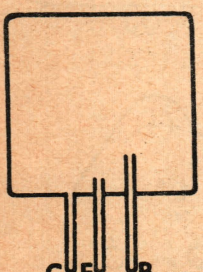

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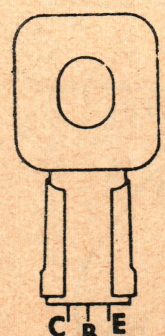

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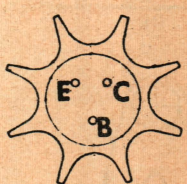

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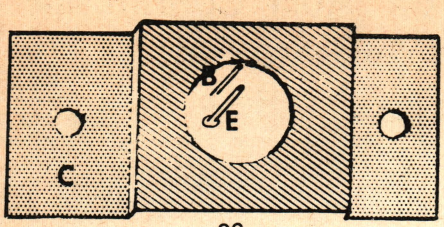

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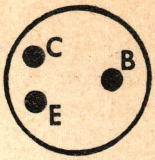

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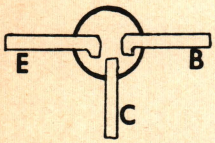

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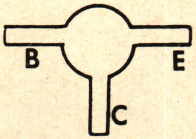

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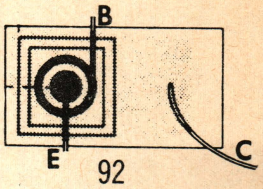

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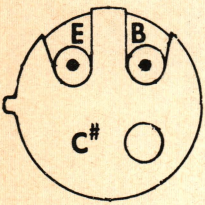

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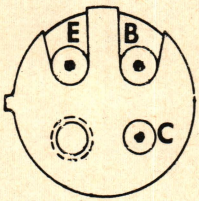

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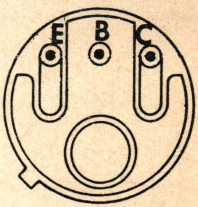

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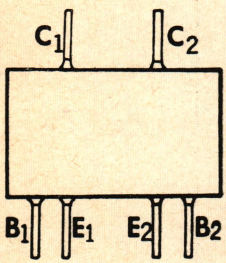

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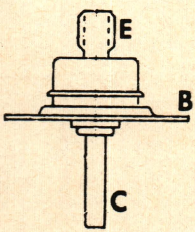

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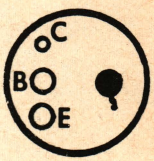

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NOTE: Dot on side of case outline denotes color mark.
*connected to case
#on top
§stud

Notations on Most Commonly Used Substitutions

Transistor	Substitutions	Remarks

Contents

ALL the maximum operating DC values of over 5,000 transistors, plus the typical gain figure of each at certain parameters.
The use to which each transistor is best suited; i.e., RF, AF, general purpose, etc.

P_C at T_A and T_C —Over 4500 transistors listed in ascending order of maximum collector power at BOTH ambient and case temperatures—from 6 mw to 110 watts, and 10 mw to 250 watts, respectively.

I_C —Over 4500 transistors listed in ascending order of maximum collector current—from 1 ma to 150 amps.

V_{CE} —Over 4000 transistors listed in ascending order of maximum collector-to-emitter voltage —from 2.0 volts to 500 volts.

V_{CB} —Over 4500 transistors listed in ascending order of maximum collector-to-base voltage—from 1.5 volts to 500 volts.

V_{EB} —Over 4000 transistors listed in ascending order of maximum emitter-to-base voltage—from 0.10 volts to 150 volts.

"Transistor SELECT-A-SPEC" is excellent for locating the proper transistor for a particular circuit which is being designed by the engineer, technician, hobbyist, student, or experimenter.

Never again will you have to guess at the voltages or current values of the transistors you are considering for design or replacement purposes. In this book, you have a complete reference source for transistor specifications; and not just *a* reference source, but the only one on the market that gives you, in index form, ALL the maximum operating values.

Take a look inside, scrutinize the information and ask yourself how many times you have wished for just such information. Well, it is yours . . . . . for only $3.95